

ATOM	487	2HD1	ILE A	36142.502	3.928	3.489	1.00	0.00	H
ATOM	488	3HDI	ILE A	36142.397	3.027	1.976	1.00	0.00	H
ATOM	489	N	ARG A	37148.348	3.667	4.882	1.00	0.00	N
ATOM	490	CA	ARG A	37149.317	4.368	5.718	1.00	0.00	C
ATOM	491	C	ARG A	37149.519	5.800	5.231	1.00	0.00	C
ATOM	492	O	ARG A	37149.161	6.756	5.921	1.00	0.00	O
ATOM	493	CB	ARG A	37150.653	3.625	5.718	1.00	0.00	C
ATOM	494	CG	ARG A	37150.520	2.138	6.004	1.00	0.00	C
ATOM	495	CD	ARG A	37150.448	1.861	7.496	1.00	0.00	C
ATOM	496	NE	ARG A	37149.225	2.391	8.094	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.068	2.601	9.399	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.053	2.328	10.246	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.924	3.087	9.859	1.00	0.00	N
ATOM	500	H	ARG A	37148.518	3.582	3.922	1.00	0.00	H
ATOM	501	HA	ARG A	37148.929	4.395	6.724	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.119	3.744	4.752	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.293	4.058	6.473	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.620	1.770	5.536	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.376	1.624	5.592	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.480	0.793	7.654	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.301	2.320	7.976	1.00	0.00	H
ATOM	508	HE	ARG A	37148.481	2.601	7.491	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.918	1.961	9.906	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.929	2.488	11.224	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.178	3.295	9.226	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.805	3.245	10.839	1.00	0.00	H
ATOM	513	N	TRP A	38150.092	5.942	4.041	1.00	0.00	N

ATOM	514	CA	TRP A	38150.340	7.259	3.465	1.00	0.00	C
ATOM	515	C	TRP A	38149.621	7.414	2.128	1.00	0.00	C
ATOM	516	O	TRP A	38149.714	6.549	1.257	1.00	0.00	O
ATOM	517	CB	TRP A	38151.845	7.487	3.282	1.00	0.00	C
ATOM	518	CG	TRP A	38152.172	8.692	2.450	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.385	9.965	2.896	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.315	8.736	1.025	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.652	10.798	1.836	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.614	10.067	0.677	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.218	7.779	0.011	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.818	10.462	-0.644	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.421	8.174	-1.298	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.718	9.504	-1.616	1.00	0.00	C
ATOM	527	H	TRP A	38150.355	5.143	3.538	1.00	0.00	H
ATOM	528	HA	TRP A	38149.956	7.998	4.152	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.303	7.619	4.251	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.276	6.622	2.800	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.347	10.260	3.934	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.840	11.757	1.898	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.989	6.750	0.236	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.045	11.485	-0.905	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.350	7.447	-2.094	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.868	9.767	-2.653	1.00	0.00	H
ATOM	537	N	ILE A	39148.914	8.527	1.971	1.00	0.00	N
ATOM	538	CA	ILE A	39148.186	8.807	0.740	1.00	0.00	C
ATOM	539	C	ILE A	39148.655	10.121	0.126	1.00	0.00	C
ATOM	540	O	ILE A	39148.335	11.200	0.627	1.00	0.00	O

ATOM	541	CB	ILE A	39146.667	8.879	0.986	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.190	7.640	1.748	1.00	0.00 C
ATOM	543	CG2	ILE A	39145.921	9.014	-0.333	1.00	0.00 C
ATOM	544	CD1	ILE A	39145.160	7.947	2.814	1.00	0.00 C
ATOM	545	H	ILE A	39148.886	9.181	2.700	1.00	0.00 H
ATOM	546	HA	ILE A	39148.383	8.004	0.044	1.00	0.00 H
ATOM	547	HB	ILE A	39146.462	9.757	1.578	1.00	0.00 H
ATOM	548	1HG1	ILE A	39145.747	6.945	1.051	1.00	0.00 H
ATOM	549	2HG1	ILE A	39147.036	7.172	2.228	1.00	0.00 H
ATOM	550	1HG2	ILE A	39146.587	9.412	-1.085	1.00	0.00 H
ATOM	551	2HG2	ILE A	39145.082	9.681	-0.206	1.00	0.00 H
ATOM	552	3HG2	ILE A	39145.564	8.044	-0.647	1.00	0.00 H
ATOM	553	1HD1	ILE A	39145.546	8.705	3.479	1.00	0.00 H
ATOM	554	2HD1	ILE A	39144.946	7.049	3.377	1.00	0.00 H
ATOM	555	3HD1	ILE A	39144.254	8.303	2.348	1.00	0.00 H
ATOM	556	N	GLY A	40149.421	10.027	-0.956	1.00	0.00 N
ATOM	557	CA	GLY A	40149.925	11.219	-1.610	1.00	0.00 C
ATOM	558	C	GLY A	40150.479	10.940	-2.992	1.00	0.00 C
ATOM	559	O	GLY A	40150.290	9.853	-3.539	1.00	0.00 O
ATOM	560	H	GLY A	40149.648	9.142	-1.310	1.00	0.00 H
ATOM	561	1HA	GLY A	40149.122	11.936	-1.694	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.707	11.646	-1.001	1.00	0.00 H
ATOM	563	N	GLN A	41151.164	11.928	-3.558	1.00	0.00 N
ATOM	564	CA	GLN A	41151.749	11.795	-4.885	1.00	0.00 C
ATOM	565	C	GLN A	41153.233	12.162	-4.861	1.00	0.00 C
ATOM	566	O	GLN A	41153.589	13.310	-4.593	1.00	0.00 O
ATOM	567	CB	GLN A	41151.006	12.692	-5.874	1.00	0.00 C

ATOM	568	CG	GLN A	41149.494	12.552	-5.804	1.00	0.00	C
ATOM	569	CD	GLN A	41148.780	13.884	-5.930	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.762	14.682	-4.993	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.187	14.129	-7.091	1.00	0.00	N
ATOM	572	H	GLN A	41151.277	12.770	-3.071	1.00	0.00	H
ATOM	573	HA	GLN A	41151.645	10.767	-5.196	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.260	13.721	-5.669	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.324	12.446	-6.875	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.166	11.910	-6.606	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.230	12.107	-4.856	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.242	13.447	-7.792	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.718	14.983	-7.200	1.00	0.00	H
ATOM	580	N	PRO A	42154.123	11.192	-5.140	1.00	0.00	N
ATOM	581	CA	PRO A	42155.571	11.431	-5.144	1.00	0.00	C
ATOM	582	C	PRO A	42155.970	12.538	-6.115	1.00	0.00	C
ATOM	583	O	PRO A	42155.226	12.862	-7.040	1.00	0.00	O
ATOM	584	CB	PRO A	42156.160	10.089	-5.592	1.00	0.00	C
ATOM	585	CG	PRO A	42155.105	9.086	-5.277	1.00	0.00	C
ATOM	586	CD	PRO A	42153.796	9.795	-5.471	1.00	0.00	C
ATOM	587	HA	PRO A	42155.932	11.675	-4.156	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.372	10.122	-6.650	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.068	9.891	-5.043	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.182	8.247	-5.953	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.204	8.755	-4.253	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.468	9.707	-6.496	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.049	9.403	-4.796	1.00	0.00	H
ATOM	594	N	PRO A	43157.157	13.135	-5.916	1.00	0.00	N

ATOM	595	CA	PRO A	43157.653	14.210	-6.779	1.00	0.00 C
ATOM	596	C	PRO A	43158.072	13.701	-8.154	1.00	0.00 C
ATOM	597	O	PRO A	43159.237	13.372	-8.377	1.00	0.00 O
ATOM	598	CB	PRO A	43158.867	14.743	-6.019	1.00	0.00 C
ATOM	599	CG	PRO A	43159.338	13.593	-5.199	1.00	0.00 C
ATOM	600	CD	PRO A	43158.107	12.807	-4.836	1.00	0.00 C
ATOM	601	HA	PRO A	43156.922	14.995	-6.894	1.00	0.00 H
ATOM	602	1HB	PRO A	43159.621	15.063	-6.722	1.00	0.00 H
ATOM	603	2HB	PRO A	43158.570	15.575	-5.398	1.00	0.00 H
ATOM	604	1HG	PRO A	43160.015	12.982	-5.778	1.00	0.00 H
ATOM	605	2HG	PRO A	43159.827	13.954	-4.306	1.00	0.00 H
ATOM	606	1HD	PRO A	43158.325	11.749	-4.822	1.00	0.00 H
ATOM	607	2HD	PRO A	43157.724	13.126	-3.877	1.00	0.00 H
ATOM	608	N	GLY A	44157.115	13.641	-9.073	1.00	0.00 N
ATOM	609	CA	GLY A	44157.408	13.172	-10.414	1.00	0.00 C
ATOM	610	C	GLY A	44156.177	12.664	-11.134	1.00	0.00 C
ATOM	611	O	GLY A	44155.900	13.064	-12.265	1.00	0.00 O
ATOM	612	H	GLY A	44156.204	13.916	-8.839	1.00	0.00 H
ATOM	613	1HA	GLY A	44157.832	13.986	-10.982	1.00	0.00 H
ATOM	614	2HA	GLY A	44158.132	12.374	-10.354	1.00	0.00 H
ATOM	615	N	LEU A	45155.434	11.777	-10.479	1.00	0.00 N
ATOM	616	CA	LEU A	45154.226	11.214	-11.068	1.00	0.00 C
ATOM	617	C	LEU A	45153.012	11.507	-10.196	1.00	0.00 C
ATOM	618	O	LEU A	45152.895	10.989	-9.086	1.00	0.00 O
ATOM	619	CB	LEU A	45154.382	9.704	-11.255	1.00	0.00 C
ATOM	620	CG	LEU A	45154.896	8.948	-10.027	1.00	0.00 C
ATOM	621	CD1	LEU A	45154.503	7.479	-10.098	1.00	0.00 C

ATOM	622	CD2	LEU A	45156.407	9.097	-9.903	1.00	0.00	C
ATOM	623	H	LEU A	45155.705	11.497	-9.578	1.00	0.00	H
ATOM	624	HA	LEU A	45154.080	11.674	-12.034	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.420	9.294	-11.528	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.071	9.532	-12.069	1.00	0.00	H
ATOM	627	HG	LEU A	45154.444	9.371	-9.141	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.934	7.217	-9.218	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.393	6.869	-10.146	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.903	7.308	-10.979	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.882	8.155	-10.133	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.657	9.388	-8.893	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.754	9.853	-10.591	1.00	0.00	H
ATOM	634	N	ASN A	46152.106	12.339	-10.702	1.00	0.00	N
ATOM	635	CA	ASN A	46150.905	12.688	-9.956	1.00	0.00	C
ATOM	636	C	ASN A	46149.929	11.517	-9.931	1.00	0.00	C
ATOM	637	O	ASN A	46149.305	11.193	-10.942	1.00	0.00	O
ATOM	638	CB	ASN A	46150.233	13.914	-10.577	1.00	0.00	C
ATOM	639	CG	ASN A	46149.461	14.730	-9.558	1.00	0.00	C
ATOM	640	OD1	ASN A	46150.024	15.208	-8.573	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.164	14.891	-9.790	1.00	0.00	N
ATOM	642	H	ASN A	46152.249	12.722	-11.592	1.00	0.00	H
ATOM	643	HA	ASN A	46151.197	12.921	-8.943	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.990	14.547	-11.017	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.548	13.590	-11.346	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.782	14.480	-10.594	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.640	15.414	-9.148	1.00	0.00	H
ATOM	648	N	GLU A	47149.803	10.889	-8.768	1.00	0.00	N

ATOM	649	CA	GLU A	47148.906	9.754	-8.603	1.00	0.00	C
ATOM	650	C	GLU A	47148.706	9.434	-7.126	1.00	0.00	C
ATOM	651	O	GLU A	47149.665	9.143	-6.412	1.00	0.00	O
ATOM	652	CB	GLU A	47149.452	8.526	-9.334	1.00	0.00	C
ATOM	653	CG	GLU A	47150.963	8.373	-9.232	1.00	0.00	C
ATOM	654	CD	GLU A	47151.518	7.390	-10.243	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.557	7.732	-11.444	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.914	6.278	-9.835	1.00	0.00	O
ATOM	657	H	GLU A	47150.329	11.196	-8.002	1.00	0.00	H
ATOM	658	HA	GLU A	47147.951	10.022	-9.033	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.996	7.640	-8.917	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.189	8.596	-10.379	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.419	9.337	-9.401	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.213	8.027	-8.240	1.00	0.00	H
ATOM	663	N	VAL A	48147.460	9.485	-6.673	1.00	0.00	N
ATOM	664	CA	VAL A	48147.149	9.192	-5.280	1.00	0.00	C
ATOM	665	C	VAL A	48147.473	7.740	-4.951	1.00	0.00	C
ATOM	666	O	VAL A	48146.697	6.836	-5.256	1.00	0.00	O
ATOM	667	CB	VAL A	48145.667	9.463	-4.963	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.413	9.366	-3.467	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.247	10.826	-5.495	1.00	0.00	C
ATOM	670	H	VAL A	48146.733	9.719	-7.288	1.00	0.00	H
ATOM	671	HA	VAL A	48147.756	9.837	-4.660	1.00	0.00	H
ATOM	672	HB	VAL A	48145.070	8.709	-5.456	1.00	0.00	H
ATOM	673	1HG1	VAL A	48146.110	10.003	-2.942	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.547	8.344	-3.145	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.403	9.683	-3.252	1.00	0.00	H

ATOM	676	1HG2	VAL A	48146.102	11.483	-5.515	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.486	11.244	-4.852	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.853	10.716	-6.494	1.00	0.00	H
ATOM	679	N	LEU A	49148.628	7.523	-4.329	1.00	0.00	N
ATOM	680	CA	LEU A	49149.056	6.179	-3.963	1.00	0.00	C
ATOM	681	C	LEU A	49148.967	5.975	-2.457	1.00	0.00	C
ATOM	682	O	LEU A	49149.649	6.651	-1.687	1.00	0.00	O
ATOM	683	CB	LEU A	49150.488	5.931	-4.439	1.00	0.00	C
ATOM	684	CG	LEU A	49150.689	6.006	-5.954	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.159	6.205	-6.288	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.153	4.752	-6.626	1.00	0.00	C
ATOM	687	H	LEU A	49149.206	8.286	-4.112	1.00	0.00	H
ATOM	688	HA	LEU A	49148.397	5.477	-4.449	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.133	6.662	-3.974	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.789	4.948	-4.109	1.00	0.00	H
ATOM	691	HG	LEU A	49150.142	6.855	-6.341	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.669	5.254	-6.248	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.603	6.881	-5.572	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.250	6.621	-7.280	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.135	4.922	-6.945	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.178	3.930	-5.926	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.763	4.513	-7.483	1.00	0.00	H
ATOM	698	N	ALAA	50148.121	5.041	-2.041	1.00	0.00	N
ATOM	699	CA	ALAA	50147.945	4.752	-0.626	1.00	0.00	C
ATOM	700	C	ALAA	50148.882	3.638	-0.173	1.00	0.00	C
ATOM	701	O	ALAA	50148.766	2.496	-0.616	1.00	0.00	O
ATOM	702	CB	ALAA	50146.498	4.377	-0.339	1.00	0.00	C

ATOM	703	H	ALA A	50147.603	4.535	-2.702	1.00	0.00	H
ATOM	704	HA	ALA A	50148.175	5.652	-0.075	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.198	4.799	0.610	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.406	3.303	-0.300	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.864	4.766	-1.122	1.00	0.00	H
ATOM	708	N	GLY A	51149.813	3.979	0.712	1.00	0.00	N
ATOM	709	CA	GLY A	51150.760	2.998	1.211	1.00	0.00	C
ATOM	710	C	GLY A	51150.106	1.965	2.109	1.00	0.00	C
ATOM	711	O	GLY A	51149.797	2.248	3.266	1.00	0.00	O
ATOM	712	H	GLY A	51149.860	4.905	1.030	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.212	2.492	0.370	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.530	3.507	1.769	1.00	0.00	H
ATOM	715	N	LEU A	52149.894	0.768	1.575	1.00	0.00	N
ATOM	716	CA	LEU A	52149.273	-0.310	2.338	1.00	0.00	C
ATOM	717	C	LEU A	52150.326	-1.142	3.061	1.00	0.00	C
ATOM	718	O	LEU A	52151.468	-1.243	2.613	1.00	0.00	O
ATOM	719	CB	LEU A	52148.444	-1.205	1.414	1.00	0.00	C
ATOM	720	CG	LEU A	52147.167	-0.566	0.868	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.575	-1.421	-0.242	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.154	-0.361	1.984	1.00	0.00	C
ATOM	723	H	LEU A	52150.162	0.603	0.647	1.00	0.00	H
ATOM	724	HA	LEU A	52148.619	0.139	3.071	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.064	-1.496	0.579	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.168	-2.094	1.963	1.00	0.00	H
ATOM	727	HG	LEU A	52147.407	0.402	0.450	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.553	-2.454	0.074	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.181	-1.330	-1.131	1.00	0.00	H

ATOM	730	3HD1	LEU A	52145.569	-1.089	-0.455	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.155	-0.488	1.591	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.258	0.636	2.386	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.329	-1.085	2.765	1.00	0.00	H
ATOM	734	N	GLU A	53149.934	-1.737	4.184	1.00	0.00	N
ATOM	735	CA	GLU A	53150.845	-2.562	4.970	1.00	0.00	C
ATOM	736	C	GLU A	53150.352	-4.005	5.036	1.00	0.00	C
ATOM	737	O	GLU A	53149.404	-4.315	5.758	1.00	0.00	O
ATOM	738	CB	GLU A	53150.988	-1.995	6.383	1.00	0.00	C
ATOM	739	CG	GLU A	53151.949	-2.780	7.260	1.00	0.00	C
ATOM	740	CD	GLU A	53151.396	-3.037	8.648	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.544	-2.245	9.104	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.814	-4.030	9.281	1.00	0.00	O
ATOM	743	H	GLU A	53149.011	-1.619	4.490	1.00	0.00	H
ATOM	744	HA	GLU A	53151.809	-2.545	4.486	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.345	-0.977	6.317	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.018	-1.995	6.859	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.150	-3.732	6.789	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.870	-2.223	7.353	1.00	0.00	H
ATOM	749	N	LEU A	54151.002	-4.881	4.279	1.00	0.00	N
ATOM	750	CA	LEU A	54150.631	-6.290	4.251	1.00	0.00	C
ATOM	751	C	LEU A	54150.942	-6.961	5.585	1.00	0.00	C
ATOM	752	O	LEU A	54152.009	-6.752	6.162	1.00	0.00	O
ATOM	753	CB	LEU A	54151.366	-7.013	3.120	1.00	0.00	C
ATOM	754	CG	LEU A	54151.264	-6.341	1.750	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.286	-6.930	0.790	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.857	-6.487	1.190	1.00	0.00	C

ATOM	757	H	LEU A	54151.750	-4.573	3.725	1.00	0.00	H
ATOM	758	HA	LEU A	54149.568	-6.349	4.072	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.412	-7.083	3.386	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.965	-8.011	3.037	1.00	0.00	H
ATOM	761	HG	LEU A	54151.475	-5.287	1.856	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.278	-6.623	1.087	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.086	-6.576	-0.211	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.221	-8.007	0.810	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.404	-7.383	1.586	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.904	-6.554	0.112	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.266	-5.628	1.472	1.00	0.00	H
ATOM	768	N	GLU A	55150.004	-7.769	6.069	1.00	0.00	N
ATOM	769	CA	GLU A	55150.179	-8.471	7.335	1.00	0.00	C
ATOM	770	C	GLU A	55151.238	-9.562	7.211	1.00	0.00	C
ATOM	771	O	GLU A	55151.998	-9.812	8.146	1.00	0.00	O
ATOM	772	CB	GLU A	55148.852	-9.081	7.792	1.00	0.00	C
ATOM	773	CG	GLU A	55147.840	-8.051	8.264	1.00	0.00	C
ATOM	774	CD	GLU A	55146.466	-8.647	8.494	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.189	-9.080	9.633	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.665	-8.681	7.536	1.00	0.00	O
ATOM	777	H	GLU A	55149.175	-7.896	5.562	1.00	0.00	H
ATOM	778	HA	GLU A	55150.505	-7.751	8.071	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.419	-9.629	6.968	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.045	-9.764	8.605	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.188	-7.621	9.191	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.759	-7.275	7.516	1.00	0.00	H
ATOM	783	N	ASP A	56151.281	-10.208	6.050	1.00	0.00	N

ATOM	784	CA	ASP A	56152.247 -11.271	5.804	1.00	0.00 C
ATOM	785	C	ASP A	56153.564 -10.701	5.286	1.00	0.00 C
ATOM	786	O	ASP A	56153.588 -9.960	4.303	1.00	0.00 O
ATOM	787	CB	ASP A	56151.682 -12.279	4.800	1.00	0.00 C
ATOM	788	CG	ASP A	56151.146 -13.527	5.473	1.00	0.00 C
ATOM	789	OD1	ASP A	56151.658 -14.628	5.177	1.00	0.00 O
ATOM	790	OD2	ASP A	56150.215 -13.404	6.297	1.00	0.00 O
ATOM	791	H	ASP A	56150.649 -9.963	5.342	1.00	0.00 H
ATOM	792	HA	ASP A	56152.431 -11.775	6.741	1.00	0.00 H
ATOM	793	1HB	ASP A	56150.877 -11.816	4.249	1.00	0.00 H
ATOM	794	2HB	ASP A	56152.463 -12.571	4.112	1.00	0.00 H
ATOM	795	N	GLU A	57154.658 -11.051	5.955	1.00	0.00 N
ATOM	796	CA	GLU A	57155.979 -10.573	5.561	1.00	0.00 C
ATOM	797	C	GLU A	57156.430 -11.230	4.261	1.00	0.00 C
ATOM	798	O	GLU A	57157.105 -12.259	4.276	1.00	0.00 O
ATOM	799	CB	GLU A	57156.996 -10.855	6.669	1.00	0.00 C
ATOM	800	CG	GLU A	57156.796 -10.001	7.910	1.00	0.00 C
ATOM	801	CD	GLU A	57156.996 -10.782	9.194	1.00	0.00 C
ATOM	802	OE1	GLU A	57157.428 -10.176	10.197	1.00	0.00 O
ATOM	803	OE2	GLU A	57156.719 -12.000	9.197	1.00	0.00 O
ATOM	804	H	GLU A	57154.576 -11.644	6.730	1.00	0.00 H
ATOM	805	HA	GLU A	57155.913 -9.507	5.409	1.00	0.00 H
ATOM	806	1HB	GLU A	57156.919 -11.893	6.957	1.00	0.00 H
ATOM	807	2HB	GLU A	57157.988 -10.669	6.287	1.00	0.00 H
ATOM	808	1HG	GLU A	57157.505 -9.187	7.890	1.00	0.00 H
ATOM	809	2HG	GLU A	57155.792 -9.603	7.900	1.00	0.00 H
ATOM	810	N	CYS A	58156.053 -10.627	3.138	1.00	0.00 N

ATOM	811	CA	CYS A	58156.420	-11.154	1.829	1.00	0.00	C
ATOM	812	C	CYS A	58157.732	-10.544	1.345	1.00	0.00	C
ATOM	813	O	CYS A	58157.972	-9.349	1.513	1.00	0.00	O
ATOM	814	CB	CYS A	58155.309	-10.874	0.814	1.00	0.00	C
ATOM	815	SG	CYS A	58153.948	-12.062	0.864	1.00	0.00	S
ATOM	816	H	CYS A	58155.515	-9.810	3.192	1.00	0.00	H
ATOM	817	HA	CYS A	58156.546	-12.221	1.924	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.897	-9.894	1.005	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.729	-10.894	-0.181	1.00	0.00	H
ATOM	820	HG	CYS A	58154.203	-12.781	1.445	1.00	0.00	H
ATOM	821	N	ALAA	59158.577	-11.375	0.745	1.00	0.00	N
ATOM	822	CA	ALAA	59159.865	-10.917	0.236	1.00	0.00	C
ATOM	823	C	ALAA	59159.687	-10.014	-0.978	1.00	0.00	C
ATOM	824	O	ALAA	59158.952	-10.344	-1.908	1.00	0.00	O
ATOM	825	CB	ALAA	59160.746	-12.107	-0.115	1.00	0.00	C
ATOM	826	H	ALAA	59158.330	-12.317	0.640	1.00	0.00	H
ATOM	827	HA	ALAA	59160.353	-10.358	1.021	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.002	-12.643	0.787	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.648	-11.758	-0.595	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.213	-12.765	-0.786	1.00	0.00	H
ATOM	831	N	GLY A	60160.363	-8.869	-0.962	1.00	0.00	N
ATOM	832	CA	GLY A	60160.266	-7.934	-2.068	1.00	0.00	C
ATOM	833	C	GLY A	60159.640	-6.615	-1.658	1.00	0.00	C
ATOM	834	O	GLY A	60159.930	-5.573	-2.248	1.00	0.00	O
ATOM	835	H	GLY A	60160.933	-8.658	-0.194	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.257	-7.746	-2.453	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.665	-8.377	-2.849	1.00	0.00	H

ATOM	838	N	CYS A	61158.781	-6.658	-0.646	1.00	0.00 N
ATOM	839	CA	CYS A	61158.113	-5.458	-0.159	1.00	0.00 C
ATOM	840	C	CYS A	61159.094	-4.548	0.573	1.00	0.00 C
ATOM	841	O	CYS A	61160.188	-4.971	0.946	1.00	0.00 O
ATOM	842	CB	CYS A	61156.957	-5.833	0.770	1.00	0.00 C
ATOM	843	SG	CYS A	61155.776	-6.994	0.047	1.00	0.00 S
ATOM	844	H	CYS A	61158.591	-7.518	-0.217	1.00	0.00 H
ATOM	845	HA	CYS A	61157.718	-4.928	-1.013	1.00	0.00 H
ATOM	846	1HB	CYS A	61157.357	-6.289	1.665	1.00	0.00 H
ATOM	847	2HB	CYS A	61156.416	-4.937	1.040	1.00	0.00 H
ATOM	848	HG	CYS A	61156.044	-7.882	0.292	1.00	0.00 H
ATOM	849	N	THR A	62158.695	-3.297	0.777	1.00	0.00 N
ATOM	850	CA	THR A	62159.539	-2.327	1.465	1.00	0.00 C
ATOM	851	C	THR A	62159.139	-2.201	2.932	1.00	0.00 C
ATOM	852	O	THR A	62158.254	-2.912	3.407	1.00	0.00 O
ATOM	853	CB	THR A	62159.447	-0.963	0.780	1.00	0.00 C
ATOM	854	OG1	THR A	62158.176	-0.787	0.179	1.00	0.00 O
ATOM	855	CG2	THR A	62160.493	-0.761	-0.297	1.00	0.00 C
ATOM	856	H	THR A	62157.811	-3.019	0.456	1.00	0.00 H
ATOM	857	HA	THR A	62160.558	-2.679	1.411	1.00	0.00 H
ATOM	858	HB	THR A	62159.582	-0.189	1.521	1.00	0.00 H
ATOM	859	HG1	THR A	62157.510	-0.686	0.864	1.00	0.00 H
ATOM	860	1HG2	THR A	62160.029	-0.340	-1.175	1.00	0.00 H
ATOM	861	2HG2	THR A	62160.940	-1.712	-0.546	1.00	0.00 H
ATOM	862	3HG2	THR A	62161.257	-0.089	0.066	1.00	0.00 H
ATOM	863	N	ASP A	63159.797	-1.291	3.642	1.00	0.00 N
ATOM	864	CA	ASP A	63159.510	-1.071	5.055	1.00	0.00 C

ATOM	865	C	ASP A	63158.823	0.274	5.267	1.00	0.00 C
ATOM	866	O	ASP A	63158.994	0.913	6.306	1.00	0.00 O
ATOM	867	CB	ASP A	63160.800	-1.132	5.874	1.00	0.00 C
ATOM	868	CG	ASP A	63161.816	-0.098	5.431	1.00	0.00 C
ATOM	869	OD1	ASP A	63162.969	-0.483	5.143	1.00	0.00 O
ATOM	870	OD2	ASP A	63161.459	1.098	5.371	1.00	0.00 O
ATOM	871	H	ASP A	63160.492	-0.755	3.207	1.00	0.00 H
ATOM	872	HA	ASP A	63158.847	-1.857	5.385	1.00	0.00 H
ATOM	873	1HB	ASP A	63160.568	-0.958	6.914	1.00	0.00 H
ATOM	874	2HB	ASP A	63161.241	-2.113	5.768	1.00	0.00 H
ATOM	875	N	GLY A	64158.045	0.698	4.277	1.00	0.00 N
ATOM	876	CA	GLY A	64157.344	1.966	4.375	1.00	0.00 C
ATOM	877	C	GLY A	64158.028	3.069	3.593	1.00	0.00 C
ATOM	878	O	GLY A	64158.120	4.204	4.059	1.00	0.00 O
ATOM	879	H	GLY A	64157.946	0.148	3.473	1.00	0.00 H
ATOM	880	1HA	GLY A	64156.341	1.839	3.997	1.00	0.00 H
ATOM	881	2HA	GLY A	64157.292	2.255	5.414	1.00	0.00 H
ATOM	882	N	THR A	65158.508	2.736	2.400	1.00	0.00 N
ATOM	883	CA	THR A	65159.188	3.707	1.550	1.00	0.00 C
ATOM	884	C	THR A	65158.823	3.496	0.083	1.00	0.00 C
ATOM	885	O	THR A	65158.776	2.365	-0.399	1.00	0.00 O
ATOM	886	CB	THR A	65160.703	3.602	1.730	1.00	0.00 C
ATOM	887	OG1	THR A	65161.154	2.295	1.424	1.00	0.00 O
ATOM	888	CG2	THR A	65161.162	3.928	3.135	1.00	0.00 C
ATOM	889	H	THR A	65158.403	1.814	2.083	1.00	0.00 H
ATOM	890	HA	THR A	65158.865	4.692	1.850	1.00	0.00 H
ATOM	891	HB	THR A	65161.184	4.295	1.056	1.00	0.00 H

ATOM	892	HG1 THR A	65160.864	2.054	0.541	1.00	0.00	H
ATOM	893	1HG2 THR A	65160.333	4.326	3.701	1.00	0.00	H
ATOM	894	2HG2 THR A	65161.954	4.661	3.094	1.00	0.00	H
ATOM	895	3HG2 THR A	65161.526	3.031	3.613	1.00	0.00	H
ATOM	896	N PHE A	66158.565	4.594	-0.621	1.00	0.00	N
ATOM	897	CA PHE A	66158.205	4.530	-2.032	1.00	0.00	C
ATOM	898	C PHE A	66159.340	5.050	-2.907	1.00	0.00	C
ATOM	899	O PHE A	66159.609	6.250	-2.942	1.00	0.00	O
ATOM	900	CB PHE A	66156.933	5.338	-2.293	1.00	0.00	C
ATOM	901	CG PHE A	66156.226	4.951	-3.560	1.00	0.00	C
ATOM	902	CD1 PHE A	66155.795	3.648	-3.758	1.00	0.00	C
ATOM	903	CD2 PHE A	66155.992	5.888	-4.553	1.00	0.00	C
ATOM	904	CE1 PHE A	66155.145	3.289	-4.923	1.00	0.00	C
ATOM	905	CE2 PHE A	66155.343	5.534	-5.721	1.00	0.00	C
ATOM	906	CZ PHE A	66154.919	4.232	-5.906	1.00	0.00	C
ATOM	907	H PHE A	66158.618	5.468	-0.181	1.00	0.00	H
ATOM	908	HA PHE A	66158.020	3.494	-2.280	1.00	0.00	H
ATOM	909	1HB PHE A	66156.247	5.191	-1.472	1.00	0.00	H
ATOM	910	2HB PHE A	66157.188	6.385	-2.360	1.00	0.00	H
ATOM	911	HD1 PHE A	66155.971	2.909	-2.990	1.00	0.00	H
ATOM	912	HD2 PHE A	66156.324	6.906	-4.409	1.00	0.00	H
ATOM	913	HE1 PHE A	66154.815	2.270	-5.065	1.00	0.00	H
ATOM	914	HE2 PHE A	66155.167	6.273	-6.487	1.00	0.00	H
ATOM	915	HZ PHE A	66154.411	3.953	-6.818	1.00	0.00	H
ATOM	916	N ARG A	67160.001	4.139	-3.614	1.00	0.00	N
ATOM	917	CA ARG A	67161.107	4.506	-4.490	1.00	0.00	C
ATOM	918	C ARG A	67162.211	5.212	-3.708	1.00	0.00	C

ATOM	919	O	ARG A	67162.933	6.048	-4.251	1.00	0.00	O
ATOM	920	CB	ARG A	67160.612	5.408	-5.622	1.00	0.00	C
ATOM	921	CG	ARG A	67159.489	4.794	-6.441	1.00	0.00	C
ATOM	922	CD	ARG A	67158.923	5.788	-7.443	1.00	0.00	C
ATOM	923	NE	ARG A	67157.777	5.245	-8.167	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.880	4.402	-9.192	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.073	4.005	-9.618	1.00	0.00	N
ATOM	926	NH2	ARG A	67156.787	3.955	-9.795	1.00	0.00	N
ATOM	927	H	ARG A	67159.739	3.197	-3.544	1.00	0.00	H
ATOM	928	HA	ARG A	67161.509	3.598	-4.915	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.253	6.334	-5.197	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.437	5.622	-6.285	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.873	3.939	-6.977	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.699	4.480	-5.775	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.613	6.677	-6.912	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.697	6.046	-8.152	1.00	0.00	H
ATOM	935	HE	ARG A	67156.884	5.521	-7.874	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.902	4.339	-9.169	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.143	3.372	-10.389	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.885	4.251	-9.479	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.864	3.323	-10.566	1.00	0.00	H
ATOM	940	N	GLY A	68162.335	4.871	-2.429	1.00	0.00	N
ATOM	941	CA	GLY A	68163.353	5.483	-1.595	1.00	0.00	C
ATOM	942	C	GLY A	68162.794	6.570	-0.696	1.00	0.00	C
ATOM	943	O	GLY A	68163.408	6.925	0.310	1.00	0.00	O
ATOM	944	H	GLY A	68161.732	4.199	-2.049	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.803	4.719	-0.979	1.00	0.00	H

ATOM	946	2HA	GLY A	68164.112	5.912	-2.231	1.00	0.00	H
ATOM	947	N	THR A	69161.630	7.102	-1.058	1.00	0.00	N
ATOM	948	CA	THR A	69160.995	8.154	-0.275	1.00	0.00	C
ATOM	949	C	THR A	69160.179	7.565	0.871	1.00	0.00	C
ATOM	950	O	THR A	69159.128	6.961	0.651	1.00	0.00	O
ATOM	951	CB	THR A	69160.098	9.013	-1.167	1.00	0.00	C
ATOM	952	OG1	THR A	69160.773	9.370	-2.361	1.00	0.00	O
ATOM	953	CG2	THR A	69159.637	10.290	-0.501	1.00	0.00	C
ATOM	954	H	THR A	69161.188	6.779	-1.870	1.00	0.00	H
ATOM	955	HA	THR A	69161.776	8.776	0.139	1.00	0.00	H
ATOM	956	HB	THR A	69159.220	8.442	-1.432	1.00	0.00	H
ATOM	957	HG1	THR A	69161.532	9.917	-2.148	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.314	10.994	-1.255	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.453	10.717	0.064	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.814	10.073	0.164	1.00	0.00	H
ATOM	961	N	ARG A	70160.668	7.743	2.093	1.00	0.00	N
ATOM	962	CA	ARG A	70159.984	7.230	3.273	1.00	0.00	C
ATOM	963	C	ARG A	70158.798	8.116	3.643	1.00	0.00	C
ATOM	964	O	ARG A	70158.936	9.332	3.770	1.00	0.00	O
ATOM	965	CB	ARG A	70160.953	7.139	4.452	1.00	0.00	C
ATOM	966	CG	ARG A	70160.326	6.570	5.714	1.00	0.00	C
ATOM	967	CD	ARG A	70160.985	7.127	6.965	1.00	0.00	C
ATOM	968	NE	ARG A	70162.129	6.321	7.387	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.855	6.575	8.472	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.559	7.610	9.250	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.880	5.793	8.782	1.00	0.00	N
ATOM	972	H	ARG A	70161.509	8.234	2.205	1.00	0.00	H

ATOM	973	HA	ARG A	70159.619	6.241	3.041	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.783	6.507	4.174	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.325	8.128	4.676	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.277	6.825	5.730	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.437	5.495	5.708	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.321	8.133	6.762	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.257	7.147	7.763	1.00	0.00	H
ATOM	980	HE	ARG A	70162.369	5.551	6.830	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.788	8.203	9.022	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.108	7.795	10.066	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.106	5.012	8.201	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.426	5.984	9.599	1.00	0.00	H
ATOM	985	N	TYR A	71157.633	7.498	3.811	1.00	0.00	N
ATOM	986	CA	TYR A	71156.424	8.231	4.165	1.00	0.00	C
ATOM	987	C	TYR A	71155.976	7.891	5.583	1.00	0.00	C
ATOM	988	O	TYR A	71155.657	8.779	6.373	1.00	0.00	O
ATOM	989	CB	TYR A	71155.302	7.914	3.175	1.00	0.00	C
ATOM	990	CG	TYR A	71155.508	8.530	1.808	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.560	9.908	1.648	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.651	7.731	0.681	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.748	10.475	0.401	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.840	8.290	-0.569	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.888	9.661	-0.703	1.00	0.00	C
ATOM	996	OH	TYR A	71156.075	10.221	-1.946	1.00	0.00	O
ATOM	997	H	TYR A	71157.587	6.526	3.695	1.00	0.00	H
ATOM	998	HA	TYR A	71156.648	9.286	4.115	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.234	6.844	3.048	1.00	0.00	H

ATOM	1000	2HB	TYR A	71154.368	8.285	3.569	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.450	10.542	2.515	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.613	6.657	0.788	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.785	11.549	0.297	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.950	7.654	-1.435	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.283	10.101	-2.476	1.00	0.00	H
ATOM	1006	N	PHE A	72155.956	6.600	5.898	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.548	6.144	7.222	1.00	0.00	C
ATOM	1008	C	PHE A	72156.530	5.113	7.768	1.00	0.00	C
ATOM	1009	O	PHE A	72157.388	4.612	7.042	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.141	5.546	7.167	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.971	4.509	6.093	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.819	4.884	4.768	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.963	3.161	6.410	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.663	3.932	3.779	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.806	2.204	5.425	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.657	2.590	4.107	1.00	0.00	C
ATOM	1017	H	PHE A	72156.222	5.940	5.226	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.540	7.000	7.880	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.917	5.082	8.115	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.428	6.338	6.982	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.824	5.932	4.509	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.080	2.857	7.440	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.545	4.237	2.749	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.803	1.155	5.685	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.534	1.844	3.335	1.00	0.00	H
ATOM	1026	N	THR A	73156.397	4.800	9.053	1.00	0.00	N

ATOM	1027	CA	THR A	73157.272	3.828	9.698	1.00	0.00	C
ATOM	1028	C	THR A	73156.519	2.538	10.005	1.00	0.00	C
ATOM	1029	O	THR A	73155.738	2.473	10.954	1.00	0.00	O
ATOM	1030	CB	THR A	73157.854	4.411	10.986	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.089	5.800	10.847	1.00	0.00	O
ATOM	1032	CG2	THR A	73159.160	3.764	11.400	1.00	0.00	C
ATOM	1033	H	THR A	73155.693	5.232	9.581	1.00	0.00	H
ATOM	1034	HA	THR A	73158.080	3.606	9.016	1.00	0.00	H
ATOM	1035	HB	THR A	73157.145	4.265	11.788	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.193	6.197	11.715	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.299	3.884	12.464	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.977	4.235	10.874	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.133	2.712	11.155	1.00	0.00	H
ATOM	1040	N	CYS A	74156.759	1.511	9.195	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.104	0.222	9.380	1.00	0.00	C
ATOM	1042	C	CYS A	74157.120	-0.916	9.346	1.00	0.00	C
ATOM	1043	O	CYS A	74158.299	-0.699	9.070	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.043	0.005	8.299	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.400	0.615	8.745	1.00	0.00	S
ATOM	1046	H	CYS A	74157.392	1.624	8.455	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.623	0.231	10.346	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.349	0.516	7.398	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.958	-1.052	8.095	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.461	1.565	8.873	1.00	0.00	H
ATOM	1051	N	ALA A	75156.654	-2.127	9.629	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.521	-3.299	9.631	1.00	0.00	C
ATOM	1053	C	ALA A	75158.160	-3.510	8.263	1.00	0.00	C

ATOM	1054	O	ALA A	75157.646	-3.043	7.247	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.737	-4.534	10.046	1.00	0.00	C
ATOM	1056	H	ALA A	75155.703	-2.236	9.841	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.301	-3.134	10.359	1.00	0.00	H
ATOM	1058	1HB	ALA A	75157.146	-5.403	9.551	1.00	0.00	H
ATOM	1059	2HB	ALA A	75155.701	-4.415	9.767	1.00	0.00	H
ATOM	1060	3HB	ALA A	75156.810	-4.663	11.116	1.00	0.00	H
ATOM	1061	N	LEU A	76159.285	-4.219	8.243	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.994	-4.493	6.999	1.00	0.00	C
ATOM	1063	C	LEU A	76159.283	-5.576	6.194	1.00	0.00	C
ATOM	1064	O	LEU A	76158.703	-6.503	6.759	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.433	-4.921	7.291	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.351	-3.804	7.794	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.435	-3.826	9.312	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.736	-3.934	7.179	1.00	0.00	C
ATOM	1069	H	LEU A	76159.645	-4.567	9.085	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.009	-3.583	6.419	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.410	-5.702	8.036	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.858	-5.324	6.383	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.940	-2.849	7.497	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76162.427	-4.848	9.658	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76161.591	-3.298	9.728	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.350	-3.346	9.628	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.645	-4.063	6.111	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76164.240	-4.790	7.603	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.307	-3.041	7.386	1.00	0.00	H
ATOM	1080	N	LYS A	77159.332	-5.452	4.872	1.00	0.00	N

ATOM	1081	CA	LYS A	77158.692	-6.421	3.989	1.00	0.00 C
ATOM	1082	C	LYS A	77157.190	-6.481	4.245	1.00	0.00 C
ATOM	1083	O	LYS A	77156.565	-7.528	4.083	1.00	0.00 O
ATOM	1084	CB	LYS A	77159.310	-7.807	4.186	1.00	0.00 C
ATOM	1085	CG	LYS A	77160.806	-7.849	3.921	1.00	0.00 C
ATOM	1086	CD	LYS A	77161.117	-7.641	2.448	1.00	0.00 C
ATOM	1087	CE	LYS A	77162.396	-6.843	2.255	1.00	0.00 C
ATOM	1088	NZ	LYS A	77163.575	-7.532	2.849	1.00	0.00 N
ATOM	1089	H	LYS A	77159.809	-4.692	4.480	1.00	0.00 H
ATOM	1090	HA	LYS A	77158.860	-6.103	2.971	1.00	0.00 H
ATOM	1091	1HB	LYS A	77159.138	-8.124	5.203	1.00	0.00 H
ATOM	1092	2HB	LYS A	77158.828	-8.502	3.515	1.00	0.00 H
ATOM	1093	1HG	LYS A	77161.285	-7.069	4.493	1.00	0.00 H
ATOM	1094	2HG	LYS A	77161.190	-8.811	4.228	1.00	0.00 H
ATOM	1095	1HD	LYS A	77161.231	-8.604	1.973	1.00	0.00 H
ATOM	1096	2HD	LYS A	77160.298	-7.107	1.989	1.00	0.00 H
ATOM	1097	1HE	LYS A	77162.566	-6.708	1.197	1.00	0.00 H
ATOM	1098	2HE	LYS A	77162.279	-5.879	2.726	1.00	0.00 H
ATOM	1099	1HZ	LYS A	77163.556	-8.544	2.608	1.00	0.00 H
ATOM	1100	2HZ	LYS A	77163.563	-7.433	3.884	1.00	0.00 H
ATOM	1101	3HZ	LYS A	77164.455	-7.116	2.482	1.00	0.00 H
ATOM	1102	N	LYS A	78156.617	-5.350	4.644	1.00	0.00 N
ATOM	1103	CA	LYS A	78155.188	-5.274	4.922	1.00	0.00 C
ATOM	1104	C	LYS A	78154.619	-3.926	4.490	1.00	0.00 C
ATOM	1105	O	LYS A	78153.788	-3.339	5.184	1.00	0.00 O
ATOM	1106	CB	LYS A	78154.924	-5.500	6.412	1.00	0.00 C
ATOM	1107	CG	LYS A	78155.426	-6.841	6.922	1.00	0.00 C

ATOM	1108	CD	LYS A	78155.126	-7.022	8.401	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.865	-7.842	8.618	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.075	-7.350	9.780	1.00	0.00	N
ATOM	1111	H	LYS A	78157.169	-4.548	4.754	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.699	-6.054	4.357	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.414	-4.719	6.974	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.860	-5.447	6.589	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.941	-7.631	6.368	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.494	-6.896	6.771	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.958	-7.528	8.868	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.995	-6.049	8.853	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.256	-7.784	7.728	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.146	-8.870	8.794	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.198	-6.322	9.886	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.391	-7.818	10.652	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.065	-7.553	9.636	1.00	0.00	H
ATOM	1124	N	ALA A	79155.073	-3.438	3.340	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.611	-2.159	2.815	1.00	0.00	C
ATOM	1126	C	ALA A	79154.473	-2.206	1.297	1.00	0.00	C
ATOM	1127	O	ALA A	79155.469	-2.255	0.575	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.562	-1.046	3.227	1.00	0.00	C
ATOM	1129	H	ALA A	79155.735	-3.953	2.831	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.643	-1.953	3.249	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.567	-1.436	3.292	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.265	-0.656	4.190	1.00	0.00	H
ATOM	1133	3HB	ALA A	79155.529	-0.255	2.494	1.00	0.00	H
ATOM	1134	N	LEU A	80153.233	-2.190	0.821	1.00	0.00	N

ATOM	1135	CA	LEU A	80152.964	-2.230	-0.613	1.00	0.00 C
ATOM	1136	C	LEU A	80152.171	-1.005	-1.052	1.00	0.00 C
ATOM	1137	O	LEU A	80151.011	-0.836	-0.677	1.00	0.00 O
ATOM	1138	CB	LEU A	80152.198	-3.505	-0.972	1.00	0.00 C
ATOM	1139	CG	LEU A	80151.803	-3.630	-2.444	1.00	0.00 C
ATOM	1140	CD1	LEU A	80152.954	-4.198	-3.260	1.00	0.00 C
ATOM	1141	CD2	LEU A	80150.564	-4.499	-2.591	1.00	0.00 C
ATOM	1142	H	LEU A	80152.480	-2.151	1.447	1.00	0.00 H
ATOM	1143	HA	LEU A	80153.913	-2.235	-1.128	1.00	0.00 H
ATOM	1144	1HB	LEU A	80152.812	-4.355	-0.712	1.00	0.00 H
ATOM	1145	2HB	LEU A	80151.297	-3.538	-0.379	1.00	0.00 H
ATOM	1146	HG	LEU A	80151.573	-2.648	-2.834	1.00	0.00 H
ATOM	1147	1HD1	LEU A	80153.063	-5.251	-3.044	1.00	0.00 H
ATOM	1148	2HD1	LEU A	80153.868	-3.683	-3.001	1.00	0.00 H
ATOM	1149	3HD1	LEU A	80152.752	-4.064	-4.312	1.00	0.00 H
ATOM	1150	1HD2	LEU A	80149.693	-3.939	-2.281	1.00	0.00 H
ATOM	1151	2HD2	LEU A	80150.665	-5.378	-1.973	1.00	0.00 H
ATOM	1152	3HD2	LEU A	80150.452	-4.796	-3.624	1.00	0.00 H
ATOM	1153	N	PHE A	81152.805	-0.150	-1.849	1.00	0.00 N
ATOM	1154	CA	PHE A	81152.158	1.061	-2.340	1.00	0.00 C
ATOM	1155	C	PHE A	81151.313	0.763	-3.574	1.00	0.00 C
ATOM	1156	O	PHE A	81151.726	0.010	-4.455	1.00	0.00 O
ATOM	1157	CB	PHE A	81153.206	2.125	-2.670	1.00	0.00 C
ATOM	1158	CG	PHE A	81153.920	2.660	-1.461	1.00	0.00 C
ATOM	1159	CD1	PHE A	81153.537	3.860	-0.888	1.00	0.00 C
ATOM	1160	CD2	PHE A	81154.977	1.960	-0.900	1.00	0.00 C
ATOM	1161	CE1	PHE A	81154.192	4.354	0.224	1.00	0.00 C

ATOM	1162	CE2 PHE A	81155.636	2.449	0.211	1.00	0.00	C
ATOM	1163	CZ PHE A	81155.243	3.648	0.774	1.00	0.00	C
ATOM	1164	H PHE A	81153.730	-0.339	-2.114	1.00	0.00	H
ATOM	1165	HA PHE A	81151.514	1.433	-1.557	1.00	0.00	H
ATOM	1166	1HB PHE A	81153.945	1.700	-3.332	1.00	0.00	H
ATOM	1167	2HB PHE A	81152.722	2.955	-3.165	1.00	0.00	H
ATOM	1168	HD1 PHE A	81152.714	4.414	-1.317	1.00	0.00	H
ATOM	1169	HD2 PHE A	81155.285	1.023	-1.339	1.00	0.00	H
ATOM	1170	HE1 PHE A	81153.883	5.292	0.661	1.00	0.00	H
ATOM	1171	HE2 PHE A	81156.457	1.894	0.641	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.757	4.032	1.644	1.00	0.00	H
ATOM	1173	N VAL A	82150.126	1.359	-3.631	1.00	0.00	N
ATOM	1174	CA VAL A	82149.223	1.158	-4.757	1.00	0.00	C
ATOM	1175	C VAL A	82148.323	2.371	-4.966	1.00	0.00	C
ATOM	1176	O VAL A	82148.239	3.249	-4.107	1.00	0.00	O
ATOM	1177	CB VAL A	82148.343	-0.089	-4.555	1.00	0.00	C
ATOM	1178	CG1 VAL A	82149.177	-1.357	-4.665	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.629	-0.028	-3.213	1.00	0.00	C
ATOM	1180	H VAL A	82149.852	1.950	-2.898	1.00	0.00	H
ATOM	1181	HA VAL A	82149.823	1.010	-5.643	1.00	0.00	H
ATOM	1182	HB VAL A	82147.596	-0.109	-5.334	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82149.983	-1.321	-3.947	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82149.587	-1.432	-5.661	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82148.556	-2.216	-4.465	1.00	0.00	H
ATOM	1186	1HG2 VAL A	82146.883	-0.806	-3.165	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82147.152	0.935	-3.103	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82148.346	-0.167	-2.417	1.00	0.00	H

ATOM	1189	N	LYS A	83147.653	2.413	-6.112	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.759	3.518	-6.435	1.00	0.00	C
ATOM	1191	C	LYS A	83145.547	3.527	-5.510	1.00	0.00	C
ATOM	1192	O	LYS A	83144.812	2.544	-5.422	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.301	3.423	-7.892	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.421	3.629	-8.897	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.023	3.147	-10.283	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.507	4.099	-11.366	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.866	3.380	-12.619	1.00	0.00	N
ATOM	1198	H	LYS A	83147.762	1.683	-6.757	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.306	4.439	-6.299	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.873	2.445	-8.058	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.544	4.173	-8.070	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.658	4.682	-8.948	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.292	3.079	-8.570	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.459	2.174	-10.454	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.947	3.075	-10.333	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.721	4.808	-11.580	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.376	4.627	-11.001	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.045	3.341	-13.256	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.167	2.410	-12.400	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.645	3.872	-13.102	1.00	0.00	H
ATOM	1211	N	LEU A	84145.347	4.646	-4.823	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.226	4.791	-3.902	1.00	0.00	C
ATOM	1213	C	LEU A	84142.898	4.603	-4.630	1.00	0.00	C
ATOM	1214	O	LEU A	84141.947	4.052	-4.074	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.268	6.169	-3.238	1.00	0.00	C

ATOM	1216	CG	LEU A	84143.081	6.486	-2.326	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.224	5.767	-0.994	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.961	7.988	-2.113	1.00	0.00	C
ATOM	1219	H	LEU A	84145.970	5.394	-4.938	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.320	4.031	-3.143	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.173	6.234	-2.652	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.307	6.918	-4.014	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.172	6.140	-2.796	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.368	5.985	-0.373	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.122	6.103	-0.498	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.283	4.702	-1.164	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.120	8.193	-1.467	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.812	8.475	-3.065	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.866	8.360	-1.656	1.00	0.00	H
ATOM	1230	N	LYS A	85142.840	5.064	-5.874	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.630	4.946	-6.678	1.00	0.00	C
ATOM	1232	C	LYS A	85141.289	3.482	-6.943	1.00	0.00	C
ATOM	1233	O	LYS A	85140.129	3.137	-7.171	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.799	5.690	-8.004	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.086	5.346	-8.735	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.011	5.729	-10.204	1.00	0.00	C
ATOM	1237	CE	LYS A	85142.658	4.534	-11.076	1.00	0.00	C
ATOM	1238	NZ	LYS A	85143.845	4.006	-11.803	1.00	0.00	N
ATOM	1239	H	LYS A	85143.631	5.494	-6.263	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.820	5.396	-6.124	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.967	5.446	-8.649	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.793	6.753	-7.811	1.00	0.00	H

ATOM	1243	1HG	LYS A	85143.904	5.880	-8.275	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.259	4.282	-8.657	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.255	6.489	-10.331	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.971	6.117	-10.514	1.00	0.00	H
ATOM	1247	1HE	LYS A	85142.255	3.752	-10.448	1.00	0.00	H
ATOM	1248	2HE	LYS A	85141.911	4.837	-11.794	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.815	2.966	-11.830	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.720	4.302	-11.326	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.857	4.367	-12.779	1.00	0.00	H
ATOM	1252	N	SER A	86142.305	2.625	-6.914	1.00	0.00	N
ATOM	1253	CA	SER A	86142.110	1.200	-7.152	1.00	0.00	C
ATOM	1254	C	SER A	86142.025	0.432	-5.835	1.00	0.00	C
ATOM	1255	O	SER A	86142.396	-0.739	-5.764	1.00	0.00	O
ATOM	1256	CB	SER A	86143.248	0.644	-8.007	1.00	0.00	C
ATOM	1257	OG	SER A	86143.129	1.068	-9.354	1.00	0.00	O
ATOM	1258	H	SER A	86143.208	2.958	-6.728	1.00	0.00	H
ATOM	1259	HA	SER A	86141.179	1.078	-7.685	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.193	0.991	-7.616	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.223	-0.437	-7.979	1.00	0.00	H
ATOM	1262	HG	SER A	86142.218	0.969	-9.642	1.00	0.00	H
ATOM	1263	N	CYS A	87141.536	1.101	-4.796	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.402	0.481	-3.483	1.00	0.00	C
ATOM	1265	C	CYS A	87139.936	0.392	-3.070	1.00	0.00	C
ATOM	1266	O	CYS A	87139.121	1.231	-3.453	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.190	1.273	-2.438	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.964	1.374	-2.773	1.00	0.00	S
ATOM	1269	H	CYS A	87141.256	2.032	-4.914	1.00	0.00	H

ATOM	1270	HA	CYS A	87141.807	-0.518	-3.544	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.806	2.283	-2.399	1.00	0.00	H
ATOM	1272	2HB	CYS A	87142.062	0.808	-1.472	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.411	1.556	-1.943	1.00	0.00	H
ATOM	1274	N	ARG A	88139.607	-0.632	-2.286	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.238	-0.829	-1.823	1.00	0.00	C
ATOM	1276	C	ARG A	88138.194	-0.971	-0.302	1.00	0.00	C
ATOM	1277	O	ARG A	88139.090	-1.563	0.299	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.630	-2.070	-2.481	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.804	-1.758	-3.719	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.321	-1.676	-3.394	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.498	-2.278	-4.440	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.378	-3.590	-4.626	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.026	-4.441	-3.839	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.607	-4.054	-5.601	1.00	0.00	N
ATOM	1285	H	ARG A	88140.300	-1.268	-2.014	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.663	0.038	-2.110	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.427	-2.739	-2.766	1.00	0.00	H
ATOM	1288	2HB	ARG A	88136.991	-2.567	-1.766	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.126	-0.811	-4.126	1.00	0.00	H
ATOM	1290	2HG	ARG A	88136.961	-2.537	-4.450	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.140	-2.193	-2.464	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.047	-0.636	-3.286	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.008	-1.672	-5.035	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88135.608	-4.098	-3.103	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88134.932	-5.426	-3.984	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.117	-3.417	-6.195	1.00	0.00	H

ATOM	1297	2HH2	ARG A	88133.518	-5.040	-5.741	1.00	0.00	H
ATOM	1298	N	PRO A	89137.145	-0.428	0.343	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.992	-0.500	1.800	1.00	0.00	C
ATOM	1300	C	PRO A	89137.064	-1.933	2.319	1.00	0.00	C
ATOM	1301	O	PRO A	89136.429	-2.834	1.772	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.600	0.087	2.047	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.338	0.956	0.866	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.029	0.296	-0.293	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.735	0.101	2.305	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.878	-0.712	2.118	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.605	0.658	2.963	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.275	1.018	0.684	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.748	1.940	1.037	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.359	-0.389	-0.793	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.397	1.039	-0.986	1.00	0.00	H
ATOM	1312	N	ASP A	90137.840	-2.134	3.379	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.993	-3.457	3.973	1.00	0.00	C
ATOM	1314	C	ASP A	90137.169	-3.577	5.252	1.00	0.00	C
ATOM	1315	O	ASP A	90137.450	-2.910	6.248	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.466	-3.738	4.273	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.802	-5.214	4.188	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.035	-5.962	3.546	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.832	-5.623	4.765	1.00	0.00	O
ATOM	1320	H	ASP A	90138.319	-1.376	3.772	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.634	-4.185	3.260	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.079	-3.207	3.561	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.697	-3.391	5.270	1.00	0.00	H

ATOM	1324	N	SER A	91136.152	-4.431	5.217	1.00	0.00	N
ATOM	1325	CA	SER A	91135.287	-4.638	6.373	1.00	0.00	C
ATOM	1326	C	SER A	91135.697	-5.889	7.143	1.00	0.00	C
ATOM	1327	O	SER A	91134.862	-6.551	7.760	1.00	0.00	O
ATOM	1328	CB	SER A	91133.828	-4.756	5.929	1.00	0.00	C
ATOM	1329	OG	SER A	91132.948	-4.280	6.933	1.00	0.00	O
ATOM	1330	H	SER A	91135.978	-4.935	4.394	1.00	0.00	H
ATOM	1331	HA	SER A	91135.389	-3.781	7.021	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.678	-4.174	5.032	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.598	-5.792	5.729	1.00	0.00	H
ATOM	1334	HG	SER A	91132.884	-3.323	6.875	1.00	0.00	H
ATOM	1335	N	ARG A	92136.986	-6.208	7.102	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.506	-7.381	7.796	1.00	0.00	C
ATOM	1337	C	ARG A	92137.392	-7.216	9.308	1.00	0.00	C
ATOM	1338	O	ARG A	92137.237	-8.194	10.039	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.965	-7.625	7.407	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.127	-8.507	6.179	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.297	-9.967	6.561	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.019	-10.606	6.867	1.00	0.00	N
ATOM	1343	CZ	ARG A	92137.901	-11.865	7.283	1.00	0.00	C
ATOM	1344	NH1	ARG A	92138.978	-12.623	7.443	1.00	0.00	N
ATOM	1345	NH2	ARG A	92136.700	-12.367	7.540	1.00	0.00	N
ATOM	1346	H	ARG A	92137.603	-5.642	6.593	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.915	-8.232	7.494	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.435	-6.674	7.205	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.472	-8.100	8.234	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.250	-8.408	5.558	1.00	0.00	H

ATOM	1351	2HG	ARG A	92139.999	-8.183	5.629	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.761	-10.490	5.738	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.937	-10.027	7.430	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.207	-10.069	6.758	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92139.885	-12.251	7.251	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92138.881	-13.568	7.756	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92135.885	-11.800	7.422	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92136.610	-13.314	7.852	1.00	0.00	H
ATOM	1359	N	PHE A	93137.469	-5.972	9.771	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.374	-5.680	11.197	1.00	0.00	C
ATOM	1361	C	PHE A	93136.233	-4.710	11.482	1.00	0.00	C
ATOM	1362	O	PHE A	93136.297	-3.923	12.426	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.694	-5.097	11.708	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.869	-6.012	11.515	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.315	-6.330	10.242	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.529	-6.553	12.607	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.396	-7.172	10.062	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.611	-7.395	12.432	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.044	-7.705	11.158	1.00	0.00	C
ATOM	1370	H	PHE A	93137.593	-5.233	9.140	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.179	-6.609	11.713	1.00	0.00	H
ATOM	1372	1HB	PHE A	93138.900	-4.177	11.182	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.602	-4.889	12.764	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.808	-5.914	9.384	1.00	0.00	H
ATOM	1375	HD2	PHE A	93140.191	-6.311	13.603	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.732	-7.413	9.064	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.116	-7.810	13.292	1.00	0.00	H

ATOM	1378	HZ	PHE A	93142.890	-8.363	11.020	1.00	0.00	H
ATOM	1379	N	ALAA	94135.189	-4.773	10.663	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.033	-3.900	10.832	1.00	0.00	C
ATOM	1381	C	ALAA	94133.305	-4.199	12.137	1.00	0.00	C
ATOM	1382	O	ALAA	94133.012	-5.354	12.445	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.085	-4.045	9.650	1.00	0.00	C
ATOM	1384	H	ALAA	94135.193	-5.422	9.929	1.00	0.00	H
ATOM	1385	HA	ALAA	94134.388	-2.879	10.856	1.00	0.00	H
ATOM	1386	1HB	ALAA	94133.208	-5.023	9.210	1.00	0.00	H
ATOM	1387	2HB	ALAA	94133.309	-3.287	8.914	1.00	0.00	H
ATOM	1388	3HB	ALAA	94132.067	-3.928	9.990	1.00	0.00	H
ATOM	1389	N	SER A	95133.013	-3.150	12.901	1.00	0.00	N
ATOM	1390	CA	SER A	95132.317	-3.302	14.173	1.00	0.00	C
ATOM	1391	C	SER A	95130.916	-3.866	13.962	1.00	0.00	C
ATOM	1392	O	SER A	95130.374	-3.811	12.859	1.00	0.00	O
ATOM	1393	CB	SER A	95132.236	-1.957	14.897	1.00	0.00	C
ATOM	1394	OG	SER A	95132.416	-2.118	16.294	1.00	0.00	O
ATOM	1395	H	SER A	95133.272	-2.255	12.601	1.00	0.00	H
ATOM	1396	HA	SER A	95132.883	-3.993	14.780	1.00	0.00	H
ATOM	1397	1HB	SER A	95133.008	-1.301	14.522	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.268	-1.513	14.719	1.00	0.00	H
ATOM	1399	HG	SER A	95133.342	-2.288	16.481	1.00	0.00	H
ATOM	1400	N	LEU A	96130.335	-4.410	15.026	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.997	-4.986	14.956	1.00	0.00	C
ATOM	1402	C	LEU A	96128.036	-4.263	15.895	1.00	0.00	C
ATOM	1403	O	LEU A	96126.868	-4.055	15.564	1.00	0.00	O
ATOM	1404	CB	LEU A	96129.042	-6.476	15.303	1.00	0.00	C

ATOM	1405	CG	LEU A	96128.119	-7.363	14.466	1.00	0.00	C
ATOM	1406	CD1	LEU A	96128.828	-7.831	13.204	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.642	-8.555	15.284	1.00	0.00	C
ATOM	1408	H	LEU A	96130.818	-4.426	15.879	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.642	-4.872	13.944	1.00	0.00	H
ATOM	1410	1HB	LEU A	96130.057	-6.823	15.170	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.772	-6.592	16.341	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.252	-6.792	14.168	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96129.233	-8.820	13.364	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96129.629	-7.148	12.967	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96128.124	-7.860	12.385	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96127.529	-9.413	14.639	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.691	-8.319	15.740	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96128.365	-8.775	16.054	1.00	0.00	H
ATOM	1419	N	GLN A	97128.533	-3.884	17.066	1.00	0.00	N
ATOM	1420	CA	GLN A	97127.716	-3.187	18.053	1.00	0.00	C
ATOM	1421	C	GLN A	97127.507	-1.726	17.658	1.00	0.00	C
ATOM	1422	O	GLN A	97126.376	-1.290	17.445	1.00	0.00	O
ATOM	1423	CB	GLN A	97128.369	-3.269	19.436	1.00	0.00	C
ATOM	1424	CG	GLN A	97127.712	-4.284	20.358	1.00	0.00	C
ATOM	1425	CD	GLN A	97128.057	-5.715	19.990	1.00	0.00	C
ATOM	1426	OE1	GLN A	97129.195	-6.154	20.161	1.00	0.00	O
ATOM	1427	NE2	GLN A	97127.075	-6.449	19.483	1.00	0.00	N
ATOM	1428	H	GLN A	97129.470	-4.080	17.272	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.755	-3.677	18.090	1.00	0.00	H
ATOM	1430	1HB	GLN A	97129.406	-3.543	19.315	1.00	0.00	H
ATOM	1431	2HB	GLN A	97128.313	-2.299	19.908	1.00	0.00	H

ATOM	1432	1HG	GLN A	97128.042	-4.100	21.370	1.00	0.00	H
ATOM	1433	2HG	GLN A	97126.641	-4.162	20.301	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.193	-6.033	19.375	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97127.270	-7.377	19.237	1.00	0.00	H
ATOM	1436	N	PRO A	98128.598	-0.947	17.556	1.00	0.00	N
ATOM	1437	CA	PRO A	98128.523	0.469	17.186	1.00	0.00	C
ATOM	1438	C	PRO A	98128.237	0.667	15.701	1.00	0.00	C
ATOM	1439	O	PRO A	98128.153	-0.297	14.942	1.00	0.00	O
ATOM	1440	CB	PRO A	98129.913	0.996	17.538	1.00	0.00	C
ATOM	1441	CG	PRO A	98130.809	-0.185	17.397	1.00	0.00	C
ATOM	1442	CD	PRO A	98129.988	-1.383	17.795	1.00	0.00	C
ATOM	1443	HA	PRO A	98127.778	0.992	17.768	1.00	0.00	H
ATOM	1444	1HB	PRO A	98130.186	1.786	16.853	1.00	0.00	H
ATOM	1445	2HB	PRO A	98129.914	1.372	18.551	1.00	0.00	H
ATOM	1446	1HG	PRO A	98131.134	-0.278	16.370	1.00	0.00	H
ATOM	1447	2HG	PRO A	98131.661	-0.081	18.052	1.00	0.00	H
ATOM	1448	1HD	PRO A	98130.236	-2.233	17.175	1.00	0.00	H
ATOM	1449	2HD	PRO A	98130.144	-1.617	18.837	1.00	0.00	H
ATOM	1450	N	SER A	99128.090	1.923	15.295	1.00	0.00	N
ATOM	1451	CA	SER A	99127.813	2.249	13.901	1.00	0.00	C
ATOM	1452	C	SER A	99126.511	1.603	13.438	1.00	0.00	C
ATOM	1453	O	SER A	99125.885	0.845	14.180	1.00	0.00	O
ATOM	1454	CB	SER A	99128.968	1.789	13.009	1.00	0.00	C
ATOM	1455	OG	SER A	99129.924	2.821	12.839	1.00	0.00	O
ATOM	1456	H	SER A	99128.168	2.649	15.948	1.00	0.00	H
ATOM	1457	HA	SER A	99127.716	3.321	13.824	1.00	0.00	H
ATOM	1458	1HB	SER A	99129.453	0.937	13.463	1.00	0.00	H

ATOM	1459	2HB	SER A	99128.582	1.509	12.039	1.00	0.00	H
ATOM	1460	HG	SER A	99129.542	3.530	12.318	1.00	0.00	H
ATOM	1461	N	GLY A	100126.108	1.908	12.209	1.00	0.00	N
ATOM	1462	CA	GLY A	100124.883	1.349	11.670	1.00	0.00	C
ATOM	1463	C	GLY A	100124.519	1.941	10.322	1.00	0.00	C
ATOM	1464	O	GLY A	100123.482	2.592	10.188	1.00	0.00	O
ATOM	1465	H	GLY A	100126.648	2.518	11.664	1.00	0.00	H
ATOM	1466	1HA	GLY A	100125.005	0.282	11.561	1.00	0.00	H
ATOM	1467	2HA	GLY A	100124.078	1.540	12.364	1.00	0.00	H
ATOM	1468	N	PRO A	101125.359	1.731	9.293	1.00	0.00	N
ATOM	1469	CA	PRO A	101125.107	2.256	7.947	1.00	0.00	C
ATOM	1470	C	PRO A	101123.718	1.890	7.433	1.00	0.00	C
ATOM	1471	O	PRO A	101122.980	2.747	6.947	1.00	0.00	O
ATOM	1472	CB	PRO A	101126.186	1.585	7.096	1.00	0.00	C
ATOM	1473	CG	PRO A	101127.285	1.275	8.051	1.00	0.00	C
ATOM	1474	CD	PRO A	101126.618	0.967	9.363	1.00	0.00	C
ATOM	1475	HA	PRO A	101125.231	3.328	7.912	1.00	0.00	H
ATOM	1476	1HB	PRO A	101125.786	0.687	6.645	1.00	0.00	H
ATOM	1477	2HB	PRO A	101126.515	2.265	6.324	1.00	0.00	H
ATOM	1478	1HG	PRO A	101127.842	0.418	7.703	1.00	0.00	H
ATOM	1479	2HG	PRO A	101127.935	2.131	8.153	1.00	0.00	H
ATOM	1480	1HD	PRO A	101126.423	-0.092	9.447	1.00	0.00	H
ATOM	1481	2HD	PRO A	101127.230	1.306	10.185	1.00	0.00	H
ATOM	1482	N	SER A	102123.369	0.613	7.545	1.00	0.00	N
ATOM	1483	CA	SER A	102122.069	0.133	7.093	1.00	0.00	C
ATOM	1484	C	SER A	102121.100	-0.001	8.263	1.00	0.00	C
ATOM	1485	O	SER A	102121.516	-0.103	9.417	1.00	0.00	O

ATOM	1486	CB	SER A 102122.218	-1.213	6.382	1.00	0.00	C
ATOM	1487	OG	SER A 102123.120	-1.118	5.293	1.00	0.00	O
ATOM	1488	H	SER A 102124.001	-0.023	7.942	1.00	0.00	H
ATOM	1489	HA	SER A 102121.674	0.857	6.395	1.00	0.00	H
ATOM	1490	1HB	SER A 102122.592	-1.947	7.079	1.00	0.00	H
ATOM	1491	2HB	SER A 102121.255	-1.529	6.008	1.00	0.00	H
ATOM	1492	HG	SER A 102124.020	-1.072	5.626	1.00	0.00	H
ATOM	1493	N	SER A 103119.807	-0.001	7.957	1.00	0.00	N
ATOM	1494	CA	SER A 103118.779	-0.124	8.984	1.00	0.00	C
ATOM	1495	C	SER A 103117.615	-0.978	8.491	1.00	0.00	C
ATOM	1496	O	SER A 103117.578	-1.380	7.327	1.00	0.00	O
ATOM	1497	CB	SER A 103118.273	1.260	9.396	1.00	0.00	C
ATOM	1498	OG	SER A 103119.008	1.766	10.496	1.00	0.00	O
ATOM	1499	H	SER A 103119.538	0.082	7.018	1.00	0.00	H
ATOM	1500	HA	SER A 103119.224	-0.605	9.842	1.00	0.00	H
ATOM	1501	1HB	SER A 103118.378	1.941	8.566	1.00	0.00	H
ATOM	1502	2HB	SER A 103117.231	1.191	9.675	1.00	0.00	H
ATOM	1503	HG	SER A 103118.404	2.011	11.200	1.00	0.00	H
ATOM	1504	N	GLY A 104116.668	-1.250	9.382	1.00	0.00	N
ATOM	1505	CA	GLY A 104115.517	-2.054	9.017	1.00	0.00	C
ATOM	1506	C	GLY A 104115.849	-3.530	8.912	1.00	0.00	C
ATOM	1507	O	GLY A 104116.578	-3.908	7.971	1.00	0.00	O
ATOM	1508	OXT	GLY A 104115.381	-4.306	9.770	1.00	0.00	O
ATOM	1509	H	GLY A 104116.751	-0.902	10.294	1.00	0.00	H
ATOM	1510	1HA	GLY A 104114.748	-1.923	9.764	1.00	0.00	H
ATOM	1511	2HA	GLY A 104115.140	-1.712	8.064	1.00	0.00	H
TER	1512	GLY A 104						

ENDMDL

Three-Dimensional Structure Coordinate Table 11

ATOM 1	N	GLY A	1115.866	3.091 -14.965	1.00	0.00 N
ATOM 2	CA	GLY A	1115.463	4.481 -15.313	1.00	0.00 C
ATOM 3	C	GLY A	1114.748	5.178 -14.173	1.00	0.00 C
ATOM 4	O	GLY A	1115.178	6.239 -13.718	1.00	0.00 O
ATOM 5 1H		GLY A	1115.734	2.465 -15.785	1.00	0.00 H
ATOM 6 2H		GLY A	1115.288	2.737 -14.177	1.00	0.00 H
ATOM 7 3H		GLY A	1116.867	3.069 -14.684	1.00	0.00 H
ATOM 8 1HA		GLY A	1116.347	5.047 -15.568	1.00	0.00 H
ATOM 9 2HA		GLY A	1114.807	4.450 -16.170	1.00	0.00 H
ATOM10	N	SER A	2113.654	4.584 -13.710	1.00	0.00 N
ATOM11	CA	SER A	2112.877	5.154 -12.617	1.00	0.00 C
ATOM12	C	SER A	2113.073	4.352 -11.334	1.00	0.00 C
ATOM13	O	SER A	2112.499	3.275 -11.170	1.00	0.00 O
ATOM14	CB	SER A	2111.393	5.196 -12.984	1.00	0.00 C
ATOM15	OG	SER A	2110.991	3.994 -13.621	1.00	0.00 O
ATOM16	H	SER A	2113.361	3.739 -14.114	1.00	0.00 H
ATOM17	HA	SER A	2113.225	6.163 -12.454	1.00	0.00 H
ATOM18 1HB		SER A	2110.805	5.327 -12.088	1.00	0.00 H
ATOM19 2HB		SER A	2111.213	6.021 -13.656	1.00	0.00 H
ATOM20	HG	SER A	2110.163	4.140 -14.085	1.00	0.00 H
ATOM21	N	SER A	3113.885	4.885 -10.428	1.00	0.00 N
ATOM22	CA	SER A	3114.158	4.219 -9.160	1.00	0.00 C
ATOM23	C	SER A	3114.271	5.234 -8.026	1.00	0.00 C
ATOM24	O	SER A	3115.013	5.026 -7.066	1.00	0.00 O

ATOM25	CB	SER A	3115.444	3.398	-9.257	1.00	0.00	C
ATOM26	OG	SER A	3116.585	4.238	-9.267	1.00	0.00	O
ATOM27	H	SER A	3114.313	5.746	-10.617	1.00	0.00	H
ATOM28	HA	SER A	3113.332	3.555	-8.951	1.00	0.00	H
ATOM29	1HB	SER A	3115.510	2.733	-8.407	1.00	0.00	H
ATOM30	2HB	SER A	3115.431	2.817	-10.168	1.00	0.00	H
ATOM31	HG	SER A	3117.076	4.121	-8.450	1.00	0.00	H
ATOM32	N	GLY A	4113.532	6.331	-8.144	1.00	0.00	N
ATOM33	CA	GLY A	4113.564	7.361	-7.124	1.00	0.00	C
ATOM34	C	GLY A	4114.925	8.018	-7.006	1.00	0.00	C
ATOM35	O	GLY A	4115.618	8.209	-8.005	1.00	0.00	O
ATOM36	H	GLY A	4112.959	6.442	-8.932	1.00	0.00	H
ATOM37	1HA	GLY A	4112.831	8.116	-7.366	1.00	0.00	H
ATOM38	2HA	GLY A	4113.308	6.918	-6.172	1.00	0.00	H
ATOM39	N	SER A	5115.308	8.367	-5.781	1.00	0.00	N
ATOM40	CA	SER A	5116.595	9.007	-5.536	1.00	0.00	C
ATOM41	C	SER A	5117.744	8.053	-5.842	1.00	0.00	C
ATOM42	O	SER A	5117.532	6.947	-6.339	1.00	0.00	O
ATOM43	CB	SER A	5116.683	9.483	-4.086	1.00	0.00	C
ATOM44	OG	SER A	5116.895	8.395	-3.204	1.00	0.00	O
ATOM45	H	SER A	5114.711	8.189	-5.025	1.00	0.00	H
ATOM46	HA	SER A	5116.669	9.863	-6.192	1.00	0.00	H
ATOM47	1HB	SER A	5117.505	10.176	-3.985	1.00	0.00	H
ATOM48	2HB	SER A	5115.761	9.977	-3.814	1.00	0.00	H
ATOM49	HG	SER A	5117.254	8.719	-2.374	1.00	0.00	H
ATOM50	N	SER A	6118.964	8.488	-5.541	1.00	0.00	N
ATOM51	CA	SER A	6120.148	7.672	-5.783	1.00	0.00	C

ATOM52	C	SER A	6121.050	7.644	-4.553	1.00	0.00	C
ATOM53	O	SER A	6120.819	8.368	-3.585	1.00	0.00	O
ATOM54	CB	SER A	6120.925	8.209	-6.987	1.00	0.00	C
ATOM55	OG	SER A	6120.330	7.794	-8.204	1.00	0.00	O
ATOM56	H	SER A	6119.070	9.379	-5.147	1.00	0.00	H
ATOM57	HA	SER A	6119.819	6.667	-5.998	1.00	0.00	H
ATOM58	1HB	SER A	6120.934	9.288	-6.955	1.00	0.00	H
ATOM59	2HB	SER A	6121.940	7.839	-6.952	1.00	0.00	H
ATOM60	HG	SER A	6119.960	8.556	-8.656	1.00	0.00	H
ATOM61	N	GLY A	7122.078	6.802	-4.599	1.00	0.00	N
ATOM62	CA	GLY A	7122.998	6.694	-3.483	1.00	0.00	C
ATOM63	C	GLY A	7124.358	7.292	-3.792	1.00	0.00	C
ATOM64	O	GLY A	7125.374	6.600	-3.734	1.00	0.00	O
ATOM65	H	GLY A	7122.211	6.250	-5.398	1.00	0.00	H
ATOM66	1HA	GLY A	7122.577	7.208	-2.631	1.00	0.00	H
ATOM67	2HA	GLY A	7123.125	5.651	-3.234	1.00	0.00	H
ATOM68	N	LEU A	8124.375	8.579	-4.121	1.00	0.00	N
ATOM69	CA	LEU A	8125.618	9.269	-4.441	1.00	0.00	C
ATOM70	C	LEU A	8126.203	9.939	-3.201	1.00	0.00	C
ATOM71	O	LEU A	8125.836	11.063	-2.860	1.00	0.00	O
ATOM72	CB	LEU A	8125.382	10.312	-5.534	1.00	0.00	C
ATOM73	CG	LEU A	8125.496	9.786	-6.966	1.00	0.00	C
ATOM74	CD1	LEU A	8124.571	10.560	-7.895	1.00	0.00	C
ATOM75	CD2	LEU A	8126.936	9.874	-7.451	1.00	0.00	C
ATOM76	H	LEU A	8123.530	9.077	-4.149	1.00	0.00	H
ATOM77	HA	LEU A	8126.321	8.535	-4.804	1.00	0.00	H
ATOM78	1HB	LEU A	8124.390	10.723	-5.402	1.00	0.00	H

ATOM79	2HB	LEU A	8126.102	11.106	-5.409	1.00	0.00	H	
ATOM80	HG	LEU A	8125.198	8.749	-6.987	1.00	0.00	H	
ATOM81	1HD1	LEU A	8124.613	10.130	-8.884	1.00	0.00	H	
ATOM82	2HD1	LEU A	8124.884	11.592	-7.936	1.00	0.00	H	
ATOM83	3HD1	LEU A	8123.559	10.504	-7.521	1.00	0.00	H	
ATOM84	1HD2	LEU A	8127.427	10.708	-6.971	1.00	0.00	H	
ATOM85	2HD2	LEU A	8126.946	10.018	-8.521	1.00	0.00	H	
ATOM86	3HD2	LEU A	8127.454	8.960	-7.205	1.00	0.00	H	
ATOM87	N	ALA A	9127.114	9.241	-2.531	1.00	0.00	N	
ATOM88	CA	ALA A	9127.749	9.768	-1.330	1.00	0.00	C	
ATOM89	C	ALA A	9129.268	9.670	-1.424	1.00	0.00	C	
ATOM90	O	ALA A	9129.869	8.705	-0.951	1.00	0.00	O	
ATOM91	CB	ALA A	9127.246	9.027	-0.100	1.00	0.00	C	
ATOM92	H	ALA A	9127.366	8.351	-2.854	1.00	0.00	H	
ATOM93	HA	ALA A	9127.471	10.807	-1.234	1.00	0.00	H	
ATOM94	1HB	ALA A	9127.736	8.068	-0.032	1.00	0.00	H	
ATOM95	2HB	ALA A	9126.179	8.883	-0.179	1.00	0.00	H	
ATOM96	3HB	ALA A	9127.466	9.607	0.785	1.00	0.00	H	
ATOM97	N	MET A	10129.884	10.676	-2.036	1.00	0.00	N	
ATOM98	CA	MET A	10131.333	10.704	-2.192	1.00	0.00	C	
ATOM99	C	MET A	10131.803	12.075	-2.673	1.00	0.00	C	
ATOM	100	O	MET A	10132.290	12.217	-3.796	1.00	0.00	O
ATOM	101	CB	MET A	10131.781	9.621	-3.177	1.00	0.00	C
ATOM	102	CG	MET A	10131.011	9.633	-4.487	1.00	0.00	C
ATOM	103	SD	MET A	10132.039	9.194	-5.902	1.00	0.00	S
ATOM	104	CE	MET A	10131.756	10.599	-6.975	1.00	0.00	C
ATOM	105	H	MET A	10129.350	11.418	-2.392	1.00	0.00	H

ATOM	106	HA	MET A	10131.774	10.503	-1.227	1.00	0.00	H
ATOM	107	1HB	MET A	10132.829	9.764	-3.399	1.00	0.00	H
ATOM	108	2HB	MET A	10131.649	8.654	-2.715	1.00	0.00	H
ATOM	109	1HG	MET A	10130.198	8.925	-4.418	1.00	0.00	H
ATOM	110	2HG	MET A	10130.610	10.624	-4.645	1.00	0.00	H
ATOM	111	1HE	MET A	10132.698	10.931	-7.388	1.00	0.00	H
ATOM	112	2HE	MET A	10131.308	11.401	-6.408	1.00	0.00	H
ATOM	113	3HE	MET A	10131.094	10.311	-7.778	1.00	0.00	H
ATOM	114	N	PRO A	11131.663	13.108	-1.824	1.00	0.00	N
ATOM	115	CA	PRO A	11132.074	14.473	-2.167	1.00	0.00	C
ATOM	116	C	PRO A	11133.551	14.563	-2.551	1.00	0.00	C
ATOM	117	O	PRO A	11133.898	15.181	-3.558	1.00	0.00	O
ATOM	118	CB	PRO A	11131.805	15.271	-0.886	1.00	0.00	C
ATOM	119	CG	PRO A	11130.807	14.463	-0.129	1.00	0.00	C
ATOM	120	CD	PRO A	11131.093	13.028	-0.468	1.00	0.00	C
ATOM	121	HA	PRO A	11131.475	14.872	-2.972	1.00	0.00	H
ATOM	122	1HB	PRO A	11132.723	15.387	-0.331	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.410	16.243	-1.142	1.00	0.00	H
ATOM	124	1HG	PRO A	11130.929	14.629	0.931	1.00	0.00	H
ATOM	125	2HG	PRO A	11129.808	14.729	-0.439	1.00	0.00	H
ATOM	126	1HD	PRO A	11131.806	12.609	0.227	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.180	12.450	-0.468	1.00	0.00	H
ATOM	128	N	PRO A	12134.450	13.949	-1.756	1.00	0.00	N
ATOM	129	CA	PRO A	12135.886	13.974	-2.032	1.00	0.00	C
ATOM	130	C	PRO A	12136.292	12.960	-3.095	1.00	0.00	C
ATOM	131	O	PRO A	12137.238	13.182	-3.852	1.00	0.00	O
ATOM	132	CB	PRO A	12136.500	13.610	-0.682	1.00	0.00	C

ATOM	133	CG	PRO A	12135.490	12.722	-0.040	1.00	0.00	C
ATOM	134	CD	PRO A	12134.140	13.185	-0.528	1.00	0.00	C
ATOM	135	HA	PRO A	12136.216	14.959	-2.328	1.00	0.00	H
ATOM	136	1HB	PRO A	12137.438	13.099	-0.837	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.662	14.507	-0.103	1.00	0.00	H
ATOM	138	1HG	PRO A	12135.663	11.698	-0.336	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.551	12.816	1.034	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.514	12.336	-0.753	1.00	0.00	H
ATOM	141	2HD	PRO A	12133.670	13.816	0.211	1.00	0.00	H
ATOM	142	N	GLY A	13135.571	11.845	-3.148	1.00	0.00	N
ATOM	143	CA	GLY A	13135.870	10.813	-4.124	1.00	0.00	C
ATOM	144	C	GLY A	13135.828	9.420	-3.526	1.00	0.00	C
ATOM	145	O	GLY A	13135.130	9.182	-2.540	1.00	0.00	O
ATOM	146	H	GLY A	13134.829	11.722	-2.520	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.150	10.871	-4.926	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.857	10.990	-4.526	1.00	0.00	H
ATOM	149	N	ASN A	14136.576	8.499	-4.124	1.00	0.00	N
ATOM	150	CA	ASN A	14136.621	7.122	-3.645	1.00	0.00	C
ATOM	151	C	ASN A	14135.237	6.483	-3.698	1.00	0.00	C
ATOM	152	O	ASN A	14134.268	7.110	-4.126	1.00	0.00	O
ATOM	153	CB	ASN A	14137.162	7.075	-2.215	1.00	0.00	C
ATOM	154	CG	ASN A	14138.589	7.579	-2.120	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.533	6.793	-2.045	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.752	8.897	-2.121	1.00	0.00	N
ATOM	157	H	ASN A	14137.110	8.751	-4.906	1.00	0.00	H
ATOM	158	HA	ASN A	14137.286	6.568	-4.290	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.541	7.689	-1.581	1.00	0.00	H

ATOM	160	2HB	ASN A	14137.135	6.055	-1.860	1.00	0.00	H
ATOM	161	1HD2	ASN A	14137.954	9.462	-2.183	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.665	9.250	-2.062	1.00	0.00	H
ATOM	163	N	SER A	15135.153	5.230	-3.261	1.00	0.00	N
ATOM	164	CA	SER A	15133.889	4.505	-3.259	1.00	0.00	C
ATOM	165	C	SER A	15133.091	4.806	-1.995	1.00	0.00	C
ATOM	166	O	SER A	15131.921	5.185	-2.062	1.00	0.00	O
ATOM	167	CB	SER A	15134.139	3.000	-3.372	1.00	0.00	C
ATOM	168	OG	SER A	15135.400	2.651	-2.828	1.00	0.00	O
ATOM	169	H	SER A	15135.961	4.783	-2.933	1.00	0.00	H
ATOM	170	HA	SER A	15133.318	4.831	-4.116	1.00	0.00	H
ATOM	171	1HB	SER A	15133.369	2.468	-2.834	1.00	0.00	H
ATOM	172	2HB	SER A	15134.117	2.710	-4.413	1.00	0.00	H
ATOM	173	HG	SER A	15135.437	1.701	-2.690	1.00	0.00	H
ATOM	174	N	HIS A	16133.731	4.634	-0.843	1.00	0.00	N
ATOM	175	CA	HIS A	16133.082	4.888	0.438	1.00	0.00	C
ATOM	176	C	HIS A	16133.911	5.845	1.287	1.00	0.00	C
ATOM	177	O	HIS A	16133.495	6.971	1.559	1.00	0.00	O
ATOM	178	CB	HIS A	16132.862	3.573	1.192	1.00	0.00	C
ATOM	179	CG	HIS A	16131.453	3.072	1.121	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.429	3.599	1.878	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.900	2.083	0.378	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.306	2.957	1.605	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.566	2.033	0.697	1.00	0.00	N
ATOM	184	H	HIS A	16134.662	4.329	-0.855	1.00	0.00	H
ATOM	185	HA	HIS A	16132.122	5.341	0.239	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.506	2.814	0.771	1.00	0.00	H

ATOM	187	2HB	HIS A	16133.115	3.715	2.233	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.511	4.334	2.522	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.414	1.452	-0.334	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.341	3.155	2.047	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.929	1.360	0.379	1.00	0.00	H
ATOM	192	N	GLY A	17135.088	5.388	1.705	1.00	0.00	N
ATOM	193	CA	GLY A	17135.958	6.216	2.519	1.00	0.00	C
ATOM	194	C	GLY A	17137.253	5.516	2.881	1.00	0.00	C
ATOM	195	O	GLY A	17137.419	5.048	4.007	1.00	0.00	O
ATOM	196	H	GLY A	17135.368	4.483	1.458	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.190	7.120	1.975	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.438	6.480	3.428	1.00	0.00	H
ATOM	199	N	LEU A	18138.173	5.445	1.924	1.00	0.00	N
ATOM	200	CA	LEU A	18139.459	4.796	2.147	1.00	0.00	C
ATOM	201	C	LEU A	18140.511	5.811	2.583	1.00	0.00	C
ATOM	202	O	LEU A	18141.018	6.584	1.770	1.00	0.00	O
ATOM	203	CB	LEU A	18139.920	4.080	0.876	1.00	0.00	C
ATOM	204	CG	LEU A	18138.891	3.132	0.258	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.244	2.832	-1.190	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.800	1.846	1.066	1.00	0.00	C
ATOM	207	H	LEU A	18137.981	5.839	1.046	1.00	0.00	H
ATOM	208	HA	LEU A	18139.330	4.068	2.934	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.178	4.828	0.140	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.805	3.510	1.110	1.00	0.00	H
ATOM	211	HG	LEU A	18137.920	3.607	0.273	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.311	2.936	-1.330	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.727	3.523	-1.838	1.00	0.00	H

ATOM	214	3HD1	LEU A	18138.947	1.822	-1.430	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.009	1.934	1.795	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.738	1.672	1.571	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.589	1.020	0.403	1.00	0.00	H
ATOM	218	N	GLU A	19140.837	5.801	3.872	1.00	0.00	N
ATOM	219	CA	GLU A	19141.830	6.719	4.417	1.00	0.00	C
ATOM	220	C	GLU A	19142.803	5.984	5.335	1.00	0.00	C
ATOM	221	O	GLU A	19142.669	4.782	5.563	1.00	0.00	O
ATOM	222	CB	GLU A	19141.144	7.851	5.183	1.00	0.00	C
ATOM	223	CG	GLU A	19140.169	7.365	6.242	1.00	0.00	C
ATOM	224	CD	GLU A	19139.068	8.368	6.526	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.317	9.321	7.292	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.956	8.198	5.981	1.00	0.00	O
ATOM	227	H	GLU A	19140.399	5.160	4.471	1.00	0.00	H
ATOM	228	HA	GLU A	19142.383	7.138	3.590	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.899	8.451	5.668	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.602	8.467	4.481	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.717	6.445	5.903	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.713	7.181	7.157	1.00	0.00	H
ATOM	233	N	VAL A	20143.782	6.716	5.858	1.00	0.00	N
ATOM	234	CA	VAL A	20144.777	6.134	6.751	1.00	0.00	C
ATOM	235	C	VAL A	20144.121	5.557	8.000	1.00	0.00	C
ATOM	236	O	VAL A	20143.192	6.145	8.554	1.00	0.00	O
ATOM	237	CB	VAL A	20145.832	7.173	7.171	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.959	6.510	7.947	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.373	7.907	5.954	1.00	0.00	C
ATOM	240	H	VAL A	20143.837	7.669	5.638	1.00	0.00	H

ATOM	241	HA	VAL A	20145.277	5.338	6.219	1.00	0.00	H
ATOM	242	HB	VAL A	20145.357	7.897	7.819	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.274	5.615	7.430	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.611	6.249	8.936	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.792	7.192	8.026	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.325	7.258	5.091	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.398	8.194	6.132	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.778	8.790	5.772	1.00	0.00	H
ATOM	249	N	GLY A	21144.611	4.402	8.440	1.00	0.00	N
ATOM	250	CA	GLY A	21144.060	3.766	9.623	1.00	0.00	C
ATOM	251	C	GLY A	21143.052	2.684	9.282	1.00	0.00	C
ATOM	252	O	GLY A	21142.879	1.729	10.039	1.00	0.00	O
ATOM	253	H	GLY A	21145.351	3.979	7.959	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.867	3.325	10.189	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.575	4.516	10.229	1.00	0.00	H
ATOM	256	N	SER A	22142.387	2.835	8.142	1.00	0.00	N
ATOM	257	CA	SER A	22141.391	1.865	7.703	1.00	0.00	C
ATOM	258	C	SER A	22142.020	0.815	6.794	1.00	0.00	C
ATOM	259	O	SER A	22143.073	1.045	6.198	1.00	0.00	O
ATOM	260	CB	SER A	22140.248	2.570	6.974	1.00	0.00	C
ATOM	261	OG	SER A	22139.563	3.461	7.837	1.00	0.00	O
ATOM	262	H	SER A	22142.570	3.619	7.582	1.00	0.00	H
ATOM	263	HA	SER A	22140.998	1.374	8.581	1.00	0.00	H
ATOM	264	1HB	SER A	22140.646	3.131	6.142	1.00	0.00	H
ATOM	265	2HB	SER A	22139.548	1.833	6.608	1.00	0.00	H
ATOM	266	HG	SER A	22138.635	3.220	7.876	1.00	0.00	H
ATOM	267	N	LEU A	23141.368	-0.338	6.690	1.00	0.00	N

ATOM	268	CA	LEU A	23141.863	-1.425	5.852	1.00	0.00 C
ATOM	269	C	LEU A	23141.319	-1.307	4.431	1.00	0.00 C
ATOM	270	O	LEU A	23140.227	-0.781	4.216	1.00	0.00 O
ATOM	271	CB	LEU A	23141.473	-2.777	6.451	1.00	0.00 C
ATOM	272	CG	LEU A	23142.132	-3.107	7.790	1.00	0.00 C
ATOM	273	CD1	LEU A	23141.223	-3.993	8.628	1.00	0.00 C
ATOM	274	CD2	LEU A	23143.478	-3.780	7.569	1.00	0.00 C
ATOM	275	H	LEU A	23140.533	-0.463	7.189	1.00	0.00 H
ATOM	276	HA	LEU A	23142.940	-1.353	5.819	1.00	0.00 H
ATOM	277	1HB	LEU A	23140.400	-2.790	6.586	1.00	0.00 H
ATOM	278	2HB	LEU A	23141.738	-3.549	5.744	1.00	0.00 H
ATOM	279	HG	LEU A	23142.300	-2.191	8.337	1.00	0.00 H
ATOM	280	1HD1	LEU A	23140.326	-3.448	8.885	1.00	0.00 H
ATOM	281	2HD1	LEU A	23141.738	-4.284	9.532	1.00	0.00 H
ATOM	282	3HD1	LEU A	23140.960	-4.875	8.064	1.00	0.00 H
ATOM	283	1HD2	LEU A	23144.046	-3.218	6.842	1.00	0.00 H
ATOM	284	2HD2	LEU A	23143.323	-4.785	7.206	1.00	0.00 H
ATOM	285	3HD2	LEU A	23144.021	-3.815	8.502	1.00	0.00 H
ATOM	286	N	ALA A	24142.088	-1.802	3.466	1.00	0.00 N
ATOM	287	CA	ALA A	24141.682	-1.753	2.067	1.00	0.00 C
ATOM	288	C	ALA A	24142.361	-2.855	1.260	1.00	0.00 C
ATOM	289	O	ALA A	24143.394	-3.389	1.666	1.00	0.00 O
ATOM	290	CB	ALA A	24142.002	-0.390	1.473	1.00	0.00 C
ATOM	291	H	ALA A	24142.947	-2.210	3.702	1.00	0.00 H
ATOM	292	HA	ALA A	24140.613	-1.896	2.025	1.00	0.00 H
ATOM	293	1HB	ALA A	24142.207	-0.495	0.418	1.00	0.00 H
ATOM	294	2HB	ALA A	24142.867	0.025	1.969	1.00	0.00 H

ATOM	295	3HB	ALA A	24141.158	0.270	1.612	1.00	0.00	H
ATOM	296	N	GLU A	25141.774	-3.190	0.116	1.00	0.00	N
ATOM	297	CA	GLU A	25142.323	-4.228	-0.749	1.00	0.00	C
ATOM	298	C	GLU A	25142.602	-3.682	-2.145	1.00	0.00	C
ATOM	299	O	GLU A	25141.870	-2.827	-2.646	1.00	0.00	O
ATOM	300	CB	GLU A	25141.356	-5.412	-0.836	1.00	0.00	C
ATOM	301	CG	GLU A	25142.003	-6.689	-1.347	1.00	0.00	C
ATOM	302	CD	GLU A	25141.070	-7.505	-2.220	1.00	0.00	C
ATOM	303	OE1	GLU A	25141.035	-8.742	-2.056	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.376	-6.906	-3.068	1.00	0.00	O
ATOM	305	H	GLU A	25140.954	-2.728	-0.154	1.00	0.00	H
ATOM	306	HA	GLU A	25143.252	-4.566	-0.315	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.955	-5.606	0.147	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.547	-5.152	-1.501	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.877	-6.428	-1.926	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.299	-7.291	-0.501	1.00	0.00	H
ATOM	311	N	VAL A	26143.665	-4.180	-2.768	1.00	0.00	N
ATOM	312	CA	VAL A	26144.042	-3.740	-4.107	1.00	0.00	C
ATOM	313	C	VAL A	26143.862	-4.863	-5.123	1.00	0.00	C
ATOM	314	O	VAL A	26144.363	-5.971	-4.934	1.00	0.00	O
ATOM	315	CB	VAL A	26145.503	-3.253	-4.149	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.828	-2.646	-5.506	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.767	-2.253	-3.033	1.00	0.00	C
ATOM	318	H	VAL A	26144.210	-4.857	-2.317	1.00	0.00	H
ATOM	319	HA	VAL A	26143.400	-2.915	-4.380	1.00	0.00	H
ATOM	320	HB	VAL A	26146.149	-4.106	-3.999	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.811	-2.968	-5.818	1.00	0.00	H

ATOM	322	2HG1	VAL A	26145.808	-1.570	-5.433	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.096	-2.972	-6.231	1.00	0.00	H
ATOM	324	1HG2	VAL A	26144.984	-2.323	-2.292	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.787	-1.253	-3.443	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.718	-2.471	-2.572	1.00	0.00	H
ATOM	327	N	LYS A	27143.143	-4.569	-6.201	1.00	0.00	N
ATOM	328	CA	LYS A	27142.897	-5.554	-7.249	1.00	0.00	C
ATOM	329	C	LYS A	27144.207	-6.026	-7.870	1.00	0.00	C
ATOM	330	O	LYS A	27145.009	-5.218	-8.341	1.00	0.00	O
ATOM	331	CB	LYS A	27141.989	-4.964	-8.329	1.00	0.00	C
ATOM	332	CG	LYS A	27142.465	-3.622	-8.858	1.00	0.00	C
ATOM	333	CD	LYS A	27142.184	-3.476	-10.346	1.00	0.00	C
ATOM	334	CE	LYS A	27143.418	-3.782	-11.178	1.00	0.00	C
ATOM	335	NZ	LYS A	27143.080	-4.003	-12.612	1.00	0.00	N
ATOM	336	H	LYS A	27142.769	-3.668	-6.295	1.00	0.00	H
ATOM	337	HA	LYS A	27142.402	-6.400	-6.797	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.939	-5.656	-9.158	1.00	0.00	H
ATOM	339	2HB	LYS A	27140.999	-4.834	-7.920	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.954	-2.833	-8.327	1.00	0.00	H
ATOM	341	2HG	LYS A	27143.530	-3.538	-8.693	1.00	0.00	H
ATOM	342	1HD	LYS A	27141.398	-4.163	-10.622	1.00	0.00	H
ATOM	343	2HD	LYS A	27141.866	-2.463	-10.545	1.00	0.00	H
ATOM	344	1HE	LYS A	27144.102	-2.949	-11.104	1.00	0.00	H
ATOM	345	2HE	LYS A	27143.890	-4.670	-10.787	1.00	0.00	H
ATOM	346	1HZ	LYS A	27142.986	-3.090	-13.102	1.00	0.00	H
ATOM	347	2HZ	LYS A	27142.183	-4.521	-12.692	1.00	0.00	H
ATOM	348	3HZ	LYS A	27143.830	-4.557	-13.075	1.00	0.00	H

ATOM	349	N	GLU A	28144.419	-7.337	-7.869	1.00	0.00	N
ATOM	350	CA	GLU A	28145.632	-7.917	-8.434	1.00	0.00	C
ATOM	351	C	GLU A	28145.583	-9.441	-8.380	1.00	0.00	C
ATOM	352	O	GLU A	28144.657	-10.023	-7.815	1.00	0.00	O
ATOM	353	CB	GLU A	28146.863	-7.404	-7.683	1.00	0.00	C
ATOM	354	CG	GLU A	28147.851	-6.662	-8.569	1.00	0.00	C
ATOM	355	CD	GLU A	28148.826	-7.593	-9.262	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.786	-7.674	-10.508	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.630	-8.240	-8.559	1.00	0.00	O
ATOM	358	H	GLU A	28143.742	-7.931	-7.481	1.00	0.00	H
ATOM	359	HA	GLU A	28145.696	-7.608	-9.466	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.540	-6.732	-6.902	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.376	-8.243	-7.235	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.300	-6.117	-9.322	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.410	-5.967	-7.960	1.00	0.00	H
ATOM	364	N	ASN A	29146.587	-10.081	-8.971	1.00	0.00	N
ATOM	365	CA	ASN A	29146.659	-11.537	-8.989	1.00	0.00	C
ATOM	366	C	ASN A	29146.727	-12.096	-7.570	1.00	0.00	C
ATOM	367	O	ASN A	29145.863	-12.868	-7.156	1.00	0.00	O
ATOM	368	CB	ASN A	29147.876	-11.998	-9.793	1.00	0.00	C
ATOM	369	CG	ASN A	29147.525	-12.348	-11.225	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.666	-13.495	-11.649	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.064	-11.357	-11.981	1.00	0.00	N
ATOM	372	H	ASN A	29147.296	-9.562	-9.404	1.00	0.00	H
ATOM	373	HA	ASN A	29145.763	-11.907	-9.466	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.612	-11.208	-9.806	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.302	-12.872	-9.322	1.00	0.00	H

ATOM	376	1HD2 ASN A	29146.977	-10.468	-11.575	1.00	0.00	H
ATOM	377	2HD2 ASN A	29146.828	-11.555	-12.911	1.00	0.00	H
ATOM	378	N PRO A	30147.761	-11.710	-6.802	1.00	0.00	N
ATOM	379	CA PRO A	30147.939	-12.176	-5.424	1.00	0.00	C
ATOM	380	C PRO A	30146.990	-11.480	-4.450	1.00	0.00	C
ATOM	381	O PRO A	30147.142	-10.292	-4.169	1.00	0.00	O
ATOM	382	CB PRO A	30149.388	-11.800	-5.116	1.00	0.00	C
ATOM	383	CG PRO A	30149.653	-10.605	-5.964	1.00	0.00	C
ATOM	384	CD PRO A	30148.839	-10.791	-7.218	1.00	0.00	C
ATOM	385	HA PRO A	30147.817	-13.246	-5.348	1.00	0.00	H
ATOM	386	1HB PRO A	30149.487	-11.571	-4.065	1.00	0.00	H
ATOM	387	2HB PRO A	30150.040	-12.621	-5.377	1.00	0.00	H
ATOM	388	1HG PRO A	30149.341	-9.711	-5.445	1.00	0.00	H
ATOM	389	2HG PRO A	30150.704	-10.553	-6.205	1.00	0.00	H
ATOM	390	1HD PRO A	30148.432	-9.846	-7.546	1.00	0.00	H
ATOM	391	2HD PRO A	30149.442	-11.233	-7.996	1.00	0.00	H
ATOM	392	N PRO A	31145.992	-12.211	-3.919	1.00	0.00	N
ATOM	393	CA PRO A	31145.023	-11.647	-2.973	1.00	0.00	C
ATOM	394	C PRO A	31145.649	-11.337	-1.618	1.00	0.00	C
ATOM	395	O PRO A	31145.627	-12.165	-0.709	1.00	0.00	O
ATOM	396	CB PRO A	31143.974	-12.754	-2.837	1.00	0.00	C
ATOM	397	CG PRO A	31144.706	-14.009	-3.159	1.00	0.00	C
ATOM	398	CD PRO A	31145.730	-13.636	-4.195	1.00	0.00	C
ATOM	399	HA PRO A	31144.560	-10.755	-3.367	1.00	0.00	H
ATOM	400	1HB PRO A	31143.591	-12.767	-1.827	1.00	0.00	H
ATOM	401	2HB PRO A	31143.168	-12.578	-3.532	1.00	0.00	H
ATOM	402	1HG PRO A	31145.191	-14.391	-2.272	1.00	0.00	H

ATOM	403	2HG	PRO A	31144.021	-14.742	-3.558	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.628	-14.224	-4.067	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.329	-13.769	-5.188	1.00	0.00	H
ATOM	406	N	PHE A	32146.208	-10.138	-1.491	1.00	0.00	N
ATOM	407	CA	PHE A	32146.842	-9.717	-0.247	1.00	0.00	C
ATOM	408	C	PHE A	32145.955	-8.733	0.510	1.00	0.00	C
ATOM	409	O	PHE A	32145.061	-8.116	-0.069	1.00	0.00	O
ATOM	410	CB	PHE A	32148.202	-9.079	-0.534	1.00	0.00	C
ATOM	411	CG	PHE A	32148.167	-8.063	-1.638	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.842	-8.289	-2.827	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.460	-6.881	-1.488	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.812	-7.355	-3.845	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.426	-5.943	-2.503	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.103	-6.181	-3.684	1.00	0.00	C
ATOM	417	H	PHE A	32146.194	-9.521	-2.253	1.00	0.00	H
ATOM	418	HA	PHE A	32146.987	-10.596	0.363	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.556	-8.587	0.360	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.902	-9.853	-0.814	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.397	-9.207	-2.955	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.930	-6.694	-0.565	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.342	-7.544	-4.767	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.871	-5.026	-2.373	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.078	-5.450	-4.478	1.00	0.00	H
ATOM	426	N	TYR A	33146.208	-8.594	1.807	1.00	0.00	N
ATOM	427	CA	TYR A	33145.433	-7.685	2.643	1.00	0.00	C
ATOM	428	C	TYR A	33146.350	-6.765	3.443	1.00	0.00	C
ATOM	429	O	TYR A	33147.263	-7.226	4.129	1.00	0.00	O

ATOM	430	CB	TYR A	33144.532	-8.475	3.592	1.00	0.00	C
ATOM	431	CG	TYR A	33143.295	-9.036	2.928	1.00	0.00	C
ATOM	432	CD1	TYR A	33143.012	-10.395	2.976	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.410	-8.205	2.252	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.882	-10.910	2.369	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.277	-8.713	1.643	1.00	0.00	C
ATOM	436	CZ	TYR A	33141.019	-10.065	1.705	1.00	0.00	C
ATOM	437	OH	TYR A	33139.893	-10.575	1.099	1.00	0.00	O
ATOM	438	H	TYR A	33146.935	-9.114	2.211	1.00	0.00	H
ATOM	439	HA	TYR A	33144.817	-7.082	1.994	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.091	-9.303	4.003	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.214	-7.829	4.398	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.690	-11.054	3.497	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.616	-7.145	2.205	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.680	-11.970	2.418	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.602	-8.050	1.122	1.00	0.00	H
ATOM	446	HH	TYR A	33139.970	-10.479	0.147	1.00	0.00	H
ATOM	447	N	GLY A	34146.102	-5.463	3.349	1.00	0.00	N
ATOM	448	CA	GLY A	34146.914	-4.500	4.069	1.00	0.00	C
ATOM	449	C	GLY A	34146.132	-3.264	4.467	1.00	0.00	C
ATOM	450	O	GLY A	34145.114	-2.941	3.854	1.00	0.00	O
ATOM	451	H	GLY A	34145.362	-5.154	2.786	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.303	-4.969	4.961	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.741	-4.202	3.441	1.00	0.00	H
ATOM	454	N	VAL A	35146.607	-2.570	5.496	1.00	0.00	N
ATOM	455	CA	VAL A	35145.946	-1.363	5.975	1.00	0.00	C
ATOM	456	C	VAL A	35146.638	-0.111	5.444	1.00	0.00	C

ATOM	457	O	VAL A	35147.863	-0.067	5.335	1.00	0.00	O
ATOM	458	CB	VAL A	35145.919	-1.312	7.516	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.332	-1.295	8.078	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.129	-0.104	8.000	1.00	0.00	C
ATOM	461	H	VAL A	35147.423	-2.879	5.943	1.00	0.00	H
ATOM	462	HA	VAL A	35144.927	-1.377	5.618	1.00	0.00	H
ATOM	463	HB	VAL A	35145.425	-2.204	7.875	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.910	-0.533	7.577	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.794	-2.259	7.920	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.296	-1.083	9.136	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.266	0.013	9.064	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.082	-0.250	7.786	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.480	0.781	7.492	1.00	0.00	H
ATOM	470	N	ILE A	36145.845	0.904	5.117	1.00	0.00	N
ATOM	471	CA	ILE A	36146.383	2.155	4.598	1.00	0.00	C
ATOM	472	C	ILE A	36147.289	2.828	5.624	1.00	0.00	C
ATOM	473	O	ILE A	36147.059	2.731	6.829	1.00	0.00	O
ATOM	474	CB	ILE A	36145.257	3.132	4.201	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.266	2.447	3.258	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.840	4.379	3.551	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.139	3.348	2.805	1.00	0.00	C
ATOM	478	H	ILE A	36144.876	0.808	5.227	1.00	0.00	H
ATOM	479	HA	ILE A	36146.963	1.929	3.715	1.00	0.00	H
ATOM	480	HB	ILE A	36144.739	3.433	5.099	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.792	2.108	2.377	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.830	1.596	3.760	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.314	4.111	2.618	1.00	0.00	H

ATOM	484	2HG2	ILE A	36146.571	4.821	4.211	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.049	5.089	3.363	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.702	2.953	1.899	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.524	4.339	2.615	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.384	3.396	3.576	1.00	0.00	H
ATOM	489	N	ARG A	37148.321	3.510	5.137	1.00	0.00	N
ATOM	490	CA	ARG A	37149.264	4.198	6.012	1.00	0.00	C
ATOM	491	C	ARG A	37149.478	5.638	5.558	1.00	0.00	C
ATOM	492	O	ARG A	37149.127	6.580	6.268	1.00	0.00	O
ATOM	493	CB	ARG A	37150.601	3.455	6.037	1.00	0.00	C
ATOM	494	CG	ARG A	37150.470	1.975	6.355	1.00	0.00	C
ATOM	495	CD	ARG A	37149.921	1.752	7.755	1.00	0.00	C
ATOM	496	NE	ARG A	37150.944	1.938	8.781	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.768	1.639	10.066	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.611	1.142	10.488	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.752	1.837	10.933	1.00	0.00	N
ATOM	500	H	ARG A	37148.453	3.549	4.167	1.00	0.00	H
ATOM	501	HA	ARG A	37148.847	4.204	7.007	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.073	3.554	5.071	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.236	3.906	6.786	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.800	1.521	5.641	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.444	1.513	6.283	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.119	2.454	7.930	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.536	0.744	7.821	1.00	0.00	H
ATOM	508	HE	ARG A	37151.808	2.303	8.498	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.866	0.990	9.839	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.485	0.920	11.454	1.00	0.00	H

ATOM	511	1HH2	ARG A	37152.626	2.210	10.622	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.620	1.614	11.899	1.00	0.00	H
ATOM	513	N	TRP A	38150.056	5.802	4.372	1.00	0.00	N
ATOM	514	CA	TRP A	38150.316	7.130	3.827	1.00	0.00	C
ATOM	515	C	TRP A	38149.543	7.349	2.529	1.00	0.00	C
ATOM	516	O	TRP A	38149.546	6.497	1.641	1.00	0.00	O
ATOM	517	CB	TRP A	38151.817	7.323	3.584	1.00	0.00	C
ATOM	518	CG	TRP A	38152.143	8.561	2.801	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.412	9.801	3.302	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.227	8.676	1.376	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.659	10.681	2.275	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.551	10.014	1.082	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.060	7.777	0.318	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.711	10.472	-0.223	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.220	8.233	-0.977	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.543	9.570	-1.238	1.00	0.00	C
ATOM	527	H	TRP A	38150.314	5.013	3.852	1.00	0.00	H
ATOM	528	HA	TRP A	38149.984	7.857	4.554	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.323	7.387	4.535	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.198	6.472	3.037	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.426	10.044	4.354	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.878	11.631	2.379	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.811	6.743	0.500	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.958	11.501	-0.442	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.095	7.552	-1.806	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.658	9.883	-2.266	1.00	0.00	H
ATOM	537	N	ILE A	39148.894	8.503	2.427	1.00	0.00	N

ATOM	538	CA	ILE A	39148.126	8.850	1.238	1.00	0.00 C
ATOM	539	C	ILE A	39148.592	10.186	0.670	1.00	0.00 C
ATOM	540	O	ILE A	39148.308	11.242	1.233	1.00	0.00 O
ATOM	541	CB	ILE A	39146.619	8.932	1.547	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.161	7.685	2.304	1.00	0.00 C
ATOM	543	CG2	ILE A	39145.823	9.101	0.261	1.00	0.00 C
ATOM	544	CD1	ILE A	39144.788	7.822	2.924	1.00	0.00 C
ATOM	545	H	ILE A	39148.940	9.143	3.168	1.00	0.00 H
ATOM	546	HA	ILE A	39148.283	8.078	0.499	1.00	0.00 H
ATOM	547	HB	ILE A	39146.447	9.802	2.163	1.00	0.00 H
ATOM	548	1HG1	ILE A	39146.135	6.847	1.623	1.00	0.00 H
ATOM	549	2HG1	ILE A	39146.865	7.475	3.097	1.00	0.00 H
ATOM	550	1HG2	ILE A	39145.935	8.217	-0.349	1.00	0.00 H
ATOM	551	2HG2	ILE A	39146.190	9.961	-0.279	1.00	0.00 H
ATOM	552	3HG2	ILE A	39144.779	9.244	0.500	1.00	0.00 H
ATOM	553	1HD1	ILE A	39144.222	8.565	2.380	1.00	0.00 H
ATOM	554	2HD1	ILE A	39144.887	8.128	3.954	1.00	0.00 H
ATOM	555	3HD1	ILE A	39144.276	6.874	2.877	1.00	0.00 H
ATOM	556	N	GLY A	40149.317	10.133	-0.444	1.00	0.00 N
ATOM	557	CA	GLY A	40149.814	11.349	-1.058	1.00	0.00 C
ATOM	558	C	GLY A	40150.305	11.134	-2.475	1.00	0.00 C
ATOM	559	O	GLY A	40150.084	10.075	-3.064	1.00	0.00 O
ATOM	560	H	GLY A	40149.517	9.263	-0.848	1.00	0.00 H
ATOM	561	1HA	GLY A	40149.024	12.082	-1.071	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.630	11.729	-0.461	1.00	0.00 H
ATOM	563	N	GLN A	41150.970	12.144	-3.024	1.00	0.00 N
ATOM	564	CA	GLN A	41151.495	12.072	-4.380	1.00	0.00 C

ATOM	565	C	GLN A	41152.978	12.443	-4.409	1.00	0.00 C
ATOM	566	O	GLN A	41153.344	13.581	-4.113	1.00	0.00 O
ATOM	567	CB	GLN A	41150.705	13.008	-5.294	1.00	0.00 C
ATOM	568	CG	GLN A	41149.198	12.857	-5.161	1.00	0.00 C
ATOM	569	CD	GLN A	41148.474	14.187	-5.206	1.00	0.00 C
ATOM	570	OE1	GLN A	41148.498	14.954	-4.243	1.00	0.00 O
ATOM	571	NE2	GLN A	41147.824	14.467	-6.327	1.00	0.00 N
ATOM	572	H	GLN A	41151.111	12.961	-2.503	1.00	0.00 H
ATOM	573	HA	GLN A	41151.378	11.058	-4.730	1.00	0.00 H
ATOM	574	1HB	GLN A	41150.964	14.028	-5.055	1.00	0.00 H
ATOM	575	2HB	GLN A	41150.976	12.807	-6.318	1.00	0.00 H
ATOM	576	1HG	GLN A	41148.837	12.241	-5.970	1.00	0.00 H
ATOM	577	2HG	GLN A	41148.979	12.376	-4.218	1.00	0.00 H
ATOM	578	1HE2	GLN A	41147.848	13.808	-7.052	1.00	0.00 H
ATOM	579	2HE2	GLN A	41147.348	15.321	-6.387	1.00	0.00 H
ATOM	580	N	PRO A	42153.856	11.486	-4.764	1.00	0.00 N
ATOM	581	CA	PRO A	42155.302	11.726	-4.824	1.00	0.00 C
ATOM	582	C	PRO A	42155.661	12.868	-5.770	1.00	0.00 C
ATOM	583	O	PRO A	42154.875	13.231	-6.645	1.00	0.00 O
ATOM	584	CB	PRO A	42155.868	10.402	-5.348	1.00	0.00 C
ATOM	585	CG	PRO A	42154.829	9.387	-5.017	1.00	0.00 C
ATOM	586	CD	PRO A	42153.514	10.100	-5.132	1.00	0.00 C
ATOM	587	HA	PRO A	42155.709	11.931	-3.845	1.00	0.00 H
ATOM	588	1HB	PRO A	42156.027	10.473	-6.414	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.803	10.185	-4.853	1.00	0.00 H
ATOM	590	1HG	PRO A	42154.876	8.569	-5.720	1.00	0.00 H
ATOM	591	2HG	PRO A	42154.974	9.028	-4.009	1.00	0.00 H

ATOM	592	1HD	PRO A	42153.144	10.050	-6.146	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.795	9.684	-4.443	1.00	0.00	H
ATOM	594	N	PRO A	43156.860	13.453	-5.604	1.00	0.00	N
ATOM	595	CA	PRO A	43157.321	14.559	-6.447	1.00	0.00	C
ATOM	596	C	PRO A	43157.678	14.101	-7.857	1.00	0.00	C
ATOM	597	O	PRO A	43158.830	13.773	-8.140	1.00	0.00	O
ATOM	598	CB	PRO A	43158.567	15.062	-5.721	1.00	0.00	C
ATOM	599	CG	PRO A	43159.073	13.877	-4.971	1.00	0.00	C
ATOM	600	CD	PRO A	43157.858	13.080	-4.583	1.00	0.00	C
ATOM	601	HA	PRO A	43156.587	15.349	-6.501	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.290	15.411	-6.444	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.299	15.866	-5.053	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.720	13.290	-5.607	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.606	14.201	-4.091	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.073	12.022	-4.624	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.522	13.360	-3.597	1.00	0.00	H
ATOM	608	N	GLY A	44156.684	14.083	-8.737	1.00	0.00	N
ATOM	609	CA	GLY A	44156.916	13.664	-10.106	1.00	0.00	C
ATOM	610	C	GLY A	44155.650	13.186	-10.789	1.00	0.00	C
ATOM	611	O	GLY A	44155.329	13.629	-11.892	1.00	0.00	O
ATOM	612	H	GLY A	44155.785	14.355	-8.454	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.319	14.497	-10.662	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.637	12.861	-10.107	1.00	0.00	H
ATOM	615	N	LEU A	45154.931	12.282	-10.134	1.00	0.00	N
ATOM	616	CA	LEU A	45153.693	11.747	-10.689	1.00	0.00	C
ATOM	617	C	LEU A	45152.520	12.016	-9.755	1.00	0.00	C
ATOM	618	O	LEU A	45152.446	11.454	-8.661	1.00	0.00	O

ATOM	619	CB	LEU A	45153.828	10.243	-10.936	1.00	0.00	C
ATOM	620	CG	LEU A	45154.377	9.438	-9.755	1.00	0.00	C
ATOM	621	CD1	LEU A	45153.938	7.983	-9.848	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.895	9.539	-9.700	1.00	0.00	C
ATOM	623	H	LEU A	45155.237	11.968	-9.256	1.00	0.00	H
ATOM	624	HA	LEU A	45153.510	12.242	-11.630	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.855	9.852	-11.190	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.487	10.095	-11.778	1.00	0.00	H
ATOM	627	HG	LEU A	45153.980	9.846	-8.836	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.493	7.801	-10.814	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.214	7.776	-9.074	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.795	7.338	-9.720	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.206	9.731	-8.683	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.228	10.346	-10.335	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.331	8.611	-10.039	1.00	0.00	H
ATOM	634	N	ASN A	46151.603	12.876	-10.187	1.00	0.00	N
ATOM	635	CA	ASN A	46150.440	13.205	-9.375	1.00	0.00	C
ATOM	636	C	ASN A	46149.451	12.046	-9.365	1.00	0.00	C
ATOM	637	O	ASN A	46148.777	11.780	-10.359	1.00	0.00	O
ATOM	638	CB	ASN A	46149.762	14.467	-9.912	1.00	0.00	C
ATOM	639	CG	ASN A	46148.887	15.142	-8.874	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.667	14.972	-8.867	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.507	15.914	-7.989	1.00	0.00	N
ATOM	642	H	ASN A	46151.711	13.294	-11.066	1.00	0.00	H
ATOM	643	HA	ASN A	46150.777	13.388	-8.365	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.518	15.169	-10.227	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.145	14.203	-10.759	1.00	0.00	H

ATOM	646	1HD2	ASN	A	46150.480	16.003	-8.054	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46148.966	16.362	-7.306	1.00	0.00	H
ATOM	648	N	GLU	A	47149.371	11.360	-8.230	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.465	10.227	-8.080	1.00	0.00	C
ATOM	650	C	GLU	A	47148.336	9.831	-6.614	1.00	0.00	C
ATOM	651	O	GLU	A	47149.326	9.488	-5.968	1.00	0.00	O
ATOM	652	CB	GLU	A	47148.954	9.034	-8.906	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.467	8.871	-8.922	1.00	0.00	C
ATOM	654	CD	GLU	A	47150.949	8.024	-10.084	1.00	0.00	C
ATOM	655	OE1	GLU	A	47151.281	6.841	-9.859	1.00	0.00	O
ATOM	656	OE2	GLU	A	47150.993	8.543	-11.218	1.00	0.00	O
ATOM	657	H	GLU	A	47149.934	11.622	-7.474	1.00	0.00	H
ATOM	658	HA	GLU	A	47147.495	10.532	-8.444	1.00	0.00	H
ATOM	659	1HB	GLU	A	47148.522	8.130	-8.500	1.00	0.00	H
ATOM	660	2HB	GLU	A	47148.617	9.155	-9.925	1.00	0.00	H
ATOM	661	1HG	GLU	A	47150.921	9.846	-8.996	1.00	0.00	H
ATOM	662	2HG	GLU	A	47150.776	8.400	-8.000	1.00	0.00	H
ATOM	663	N	VAL	A	48147.114	9.870	-6.094	1.00	0.00	N
ATOM	664	CA	VAL	A	48146.872	9.503	-4.705	1.00	0.00	C
ATOM	665	C	VAL	A	48147.247	8.047	-4.462	1.00	0.00	C
ATOM	666	O	VAL	A	48146.529	7.136	-4.873	1.00	0.00	O
ATOM	667	CB	VAL	A	48145.398	9.717	-4.313	1.00	0.00	C
ATOM	668	CG1	VAL	A	48145.216	9.557	-2.812	1.00	0.00	C
ATOM	669	CG2	VAL	A	48144.916	11.084	-4.773	1.00	0.00	C
ATOM	670	H	VAL	A	48146.361	10.145	-6.656	1.00	0.00	H
ATOM	671	HA	VAL	A	48147.489	10.134	-4.079	1.00	0.00	H
ATOM	672	HB	VAL	A	48144.802	8.964	-4.807	1.00	0.00	H

ATOM	673	1HG1	VAL A	48145.039	8.517	-2.579	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.372	10.147	-2.486	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.107	9.893	-2.304	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.445	10.993	-5.741	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.756	11.758	-4.844	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.202	11.473	-4.062	1.00	0.00	H
ATOM	679	N	LEU A	49148.379	7.832	-3.799	1.00	0.00	N
ATOM	680	CA	LEU A	49148.848	6.483	-3.510	1.00	0.00	C
ATOM	681	C	LEU A	49148.744	6.177	-2.020	1.00	0.00	C
ATOM	682	O	LEU A	49149.376	6.837	-1.195	1.00	0.00	O
ATOM	683	CB	LEU A	49150.295	6.312	-3.976	1.00	0.00	C
ATOM	684	CG	LEU A	49150.530	6.565	-5.466	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.936	7.094	-5.703	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.295	5.292	-6.266	1.00	0.00	C
ATOM	687	H	LEU A	49148.911	8.598	-3.500	1.00	0.00	H
ATOM	688	HA	LEU A	49148.221	5.791	-4.051	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.916	6.994	-3.413	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.606	5.303	-3.753	1.00	0.00	H
ATOM	691	HG	LEU A	49149.830	7.312	-5.812	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.625	6.597	-5.035	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.956	8.157	-5.515	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.224	6.904	-6.725	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.234	5.144	-6.403	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.710	4.450	-5.731	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.775	5.379	-7.229	1.00	0.00	H
ATOM	698	N	ALAA	50147.942	5.175	-1.682	1.00	0.00	N
ATOM	699	CA	ALAA	50147.757	4.783	-0.293	1.00	0.00	C

ATOM	700	C	ALAA	50148.708	3.652	0.087	1.00	0.00	C
ATOM	701	O	ALAA	50148.610	2.543	-0.438	1.00	0.00	O
ATOM	702	CB	ALAA	50146.314	4.370	-0.048	1.00	0.00	C
ATOM	703	H	ALAA	50147.465	4.685	-2.385	1.00	0.00	H
ATOM	704	HA	ALAA	50147.971	5.644	0.324	1.00	0.00	H
ATOM	705	1HB	ALAA	50145.880	4.013	-0.970	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.752	5.221	0.310	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.285	3.584	0.692	1.00	0.00	H
ATOM	708	N	GLY A	51149.627	3.939	1.002	1.00	0.00	N
ATOM	709	CA	GLY A	51150.582	2.936	1.435	1.00	0.00	C
ATOM	710	C	GLY A	51149.944	1.857	2.288	1.00	0.00	C
ATOM	711	O	GLY A	51149.667	2.072	3.467	1.00	0.00	O
ATOM	712	H	GLY A	51149.659	4.841	1.386	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.024	2.476	0.563	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.360	3.419	2.007	1.00	0.00	H
ATOM	715	N	LEU A	52149.711	0.693	1.690	1.00	0.00	N
ATOM	716	CA	LEU A	52149.101	-0.422	2.404	1.00	0.00	C
ATOM	717	C	LEU A	52150.167	-1.303	3.049	1.00	0.00	C
ATOM	718	O	LEU A	52151.186	-1.613	2.434	1.00	0.00	O
ATOM	719	CB	LEU A	52148.242	-1.257	1.453	1.00	0.00	C
ATOM	720	CG	LEU A	52146.950	-0.583	0.988	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.322	-1.365	-0.155	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.973	-0.450	2.147	1.00	0.00	C
ATOM	723	H	LEU A	52149.954	0.582	0.748	1.00	0.00	H
ATOM	724	HA	LEU A	52148.471	-0.014	3.180	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.835	-1.494	0.581	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.981	-2.179	1.951	1.00	0.00	H

ATOM	727	HG	LEU A	52147.179	0.409	0.627	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.643	-2.395	-0.105	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.632	-0.936	-1.097	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.246	-1.319	-0.075	1.00	0.00	H
ATOM	731	1HD2	LEU A	52144.964	-0.560	1.781	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.087	0.521	2.604	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.176	-1.219	2.878	1.00	0.00	H
ATOM	734	N	GLU A	53149.923	-1.701	4.293	1.00	0.00	N
ATOM	735	CA	GLU A	53150.860	-2.546	5.023	1.00	0.00	C
ATOM	736	C	GLU A	53150.365	-3.987	5.075	1.00	0.00	C
ATOM	737	O	GLU A	53149.400	-4.298	5.775	1.00	0.00	O
ATOM	738	CB	GLU A	53151.064	-2.012	6.442	1.00	0.00	C
ATOM	739	CG	GLU A	53152.062	-2.817	7.258	1.00	0.00	C
ATOM	740	CD	GLU A	53151.663	-2.934	8.716	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.507	-2.640	9.588	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.505	-3.320	8.985	1.00	0.00	O
ATOM	743	H	GLU A	53149.092	-1.420	4.731	1.00	0.00	H
ATOM	744	HA	GLU A	53151.805	-2.522	4.499	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.418	-0.993	6.383	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.115	-2.025	6.958	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.132	-3.810	6.839	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.026	-2.334	7.201	1.00	0.00	H
ATOM	749	N	LEU A	54151.031	-4.864	4.331	1.00	0.00	N
ATOM	750	CA	LEU A	54150.656	-6.273	4.293	1.00	0.00	C
ATOM	751	C	LEU A	54150.886	-6.932	5.649	1.00	0.00	C
ATOM	752	O	LEU A	54151.925	-6.736	6.278	1.00	0.00	O
ATOM	753	CB	LEU A	54151.457	-7.006	3.214	1.00	0.00	C

ATOM	754	CG	LEU A	54151.439	-6.347	1.835	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.671	-6.744	1.038	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.171	-6.721	1.083	1.00	0.00	C
ATOM	757	H	LEU A	54151.791	-4.556	3.794	1.00	0.00	H
ATOM	758	HA	LEU A	54149.606	-6.331	4.051	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.483	-7.077	3.544	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.058	-8.004	3.116	1.00	0.00	H
ATOM	761	HG	LEU A	54151.452	-5.273	1.957	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.477	-6.611	-0.016	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.908	-7.779	1.233	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.505	-6.123	1.331	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.358	-6.840	1.783	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.328	-7.650	0.553	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.927	-5.941	0.377	1.00	0.00	H
ATOM	768	N	GLU A	55149.907	-7.714	6.094	1.00	0.00	N
ATOM	769	CA	GLU A	55150.001	-8.401	7.377	1.00	0.00	C
ATOM	770	C	GLU A	55151.060	-9.499	7.330	1.00	0.00	C
ATOM	771	O	GLU A	55151.701	-9.799	8.336	1.00	0.00	O
ATOM	772	CB	GLU A	55148.646	-8.998	7.759	1.00	0.00	C
ATOM	773	CG	GLU A	55147.674	-7.981	8.333	1.00	0.00	C
ATOM	774	CD	GLU A	55148.170	-7.364	9.626	1.00	0.00	C
ATOM	775	OE1	GLU A	55148.415	-8.122	10.589	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.315	-6.125	9.676	1.00	0.00	O
ATOM	777	H	GLU A	55149.103	-7.830	5.547	1.00	0.00	H
ATOM	778	HA	GLU A	55150.288	-7.675	8.122	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.198	-9.437	6.880	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.802	-9.772	8.497	1.00	0.00	H

ATOM	781	1HG	GLU A	55147.528	-7.193	7.609	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.730	-8.471	8.524	1.00	0.00	H
ATOM	783	N	ASP A	56151.235	-10.095	6.155	1.00	0.00	N
ATOM	784	CA	ASP A	56152.215	-11.161	5.978	1.00	0.00	C
ATOM	785	C	ASP A	56153.472	-10.635	5.293	1.00	0.00	C
ATOM	786	O	ASP A	56153.399	-10.016	4.231	1.00	0.00	O
ATOM	787	CB	ASP A	56151.614	-12.305	5.159	1.00	0.00	C
ATOM	788	CG	ASP A	56152.086	-13.665	5.635	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.314	-13.865	5.739	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.226	-14.531	5.903	1.00	0.00	O
ATOM	791	H	ASP A	56150.692	-9.813	5.390	1.00	0.00	H
ATOM	792	HA	ASP A	56152.481	-11.532	6.956	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.538	-12.270	5.239	1.00	0.00	H
ATOM	794	2HB	ASP A	56151.900	-12.187	4.124	1.00	0.00	H
ATOM	795	N	GLU A	57154.623	-10.886	5.908	1.00	0.00	N
ATOM	796	CA	GLU A	57155.897	-10.437	5.358	1.00	0.00	C
ATOM	797	C	GLU A	57156.146	-11.058	3.987	1.00	0.00	C
ATOM	798	O	GLU A	57156.676	-12.164	3.883	1.00	0.00	O
ATOM	799	CB	GLU A	57157.041	-10.794	6.308	1.00	0.00	C
ATOM	800	CG	GLU A	57157.055	-9.966	7.582	1.00	0.00	C
ATOM	801	CD	GLU A	57158.284	-10.222	8.432	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.123	-10.572	9.620	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.408	-10.075	7.908	1.00	0.00	O
ATOM	804	H	GLU A	57154.616	-11.383	6.752	1.00	0.00	H
ATOM	805	HA	GLU A	57155.852	-9.364	5.250	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.955	-11.835	6.582	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.980	-10.642	5.796	1.00	0.00	H

ATOM	808	1HG	GLU A	57157.031	-8.919	7.317	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.176	-10.208	8.163	1.00	0.00	H
ATOM	810	N	CYS A	58155.763	-10.338	2.938	1.00	0.00	N
ATOM	811	CA	CYS A	58155.945	-10.818	1.573	1.00	0.00	C
ATOM	812	C	CYS A	58157.246	-10.289	0.980	1.00	0.00	C
ATOM	813	O	CYS A	58157.473	-9.080	0.932	1.00	0.00	O
ATOM	814	CB	CYS A	58154.763	-10.394	0.699	1.00	0.00	C
ATOM	815	SG	CYS A	58154.436	-11.507	-0.689	1.00	0.00	S
ATOM	816	H	CYS A	58155.347	-9.463	3.085	1.00	0.00	H
ATOM	817	HA	CYS A	58155.990	-11.897	1.605	1.00	0.00	H
ATOM	818	1HB	CYS A	58153.871	-10.358	1.306	1.00	0.00	H
ATOM	819	2HB	CYS A	58154.958	-9.412	0.295	1.00	0.00	H
ATOM	820	HG	CYS A	58153.900	-11.032	-1.328	1.00	0.00	H
ATOM	821	N	ALAA	59158.100	-11.203	0.529	1.00	0.00	N
ATOM	822	CA	ALAA	59159.379	-10.828	-0.061	1.00	0.00	C
ATOM	823	C	ALAA	59159.178	-10.053	-1.359	1.00	0.00	C
ATOM	824	O	ALAA	59158.634	-10.579	-2.330	1.00	0.00	O
ATOM	825	CB	ALAA	59160.228	-12.065	-0.310	1.00	0.00	C
ATOM	826	H	ALAA	59157.863	-12.152	0.594	1.00	0.00	H
ATOM	827	HA	ALAA	59159.900	-10.199	0.645	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.950	-11.858	-1.085	1.00	0.00	H
ATOM	829	2HB	ALAA	59159.592	-12.882	-0.618	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.745	-12.336	0.600	1.00	0.00	H
ATOM	831	N	GLY A	60159.621	-8.800	-1.369	1.00	0.00	N
ATOM	832	CA	GLY A	60159.480	-7.973	-2.552	1.00	0.00	C
ATOM	833	C	GLY A	60159.106	-6.542	-2.218	1.00	0.00	C
ATOM	834	O	GLY A	60159.440	-5.617	-2.959	1.00	0.00	O

ATOM	835	H	GLY A	60160.046	-8.434	-0.565	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.416	-7.972	-3.091	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.713	-8.396	-3.184	1.00	0.00	H
ATOM	838	N	CYS A	61158.411	-6.360	-1.100	1.00	0.00	N
ATOM	839	CA	CYS A	61157.991	-5.031	-0.668	1.00	0.00	C
ATOM	840	C	CYS A	61159.058	-4.381	0.206	1.00	0.00	C
ATOM	841	O	CYS A	61160.067	-5.004	0.538	1.00	0.00	O
ATOM	842	CB	CYS A	61156.669	-5.115	0.097	1.00	0.00	C
ATOM	843	SG	CYS A	61155.341	-5.938	-0.813	1.00	0.00	S
ATOM	844	H	CYS A	61158.176	-7.137	-0.552	1.00	0.00	H
ATOM	845	HA	CYS A	61157.848	-4.426	-1.552	1.00	0.00	H
ATOM	846	1HB	CYS A	61156.827	-5.664	1.013	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.337	-4.115	0.334	1.00	0.00	H
ATOM	848	HG	CYS A	61154.750	-5.260	-1.151	1.00	0.00	H
ATOM	849	N	THR A	62158.829	-3.125	0.574	1.00	0.00	N
ATOM	850	CA	THR A	62159.770	-2.390	1.410	1.00	0.00	C
ATOM	851	C	THR A	62159.230	-2.229	2.827	1.00	0.00	C
ATOM	852	O	THR A	62158.159	-2.740	3.155	1.00	0.00	O
ATOM	853	CB	THR A	62160.058	-1.016	0.803	1.00	0.00	C
ATOM	854	OG1	THR A	62158.932	-0.537	0.089	1.00	0.00	O
ATOM	855	CG2	THR A	62161.237	-1.016	-0.146	1.00	0.00	C
ATOM	856	H	THR A	62158.007	-2.681	0.277	1.00	0.00	H
ATOM	857	HA	THR A	62160.690	-2.956	1.450	1.00	0.00	H
ATOM	858	HB	THR A	62160.276	-0.320	1.600	1.00	0.00	H
ATOM	859	HG1	THR A	62158.208	-0.381	0.700	1.00	0.00	H
ATOM	860	1HG2	THR A	62162.101	-0.600	0.352	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.000	-0.419	-1.015	1.00	0.00	H

ATOM	862	3HG2 THR A	62161.453	-2.029	-0.453	1.00	0.00	H
ATOM	863	N ASP A	63159.978	-1.518	3.663	1.00	0.00	N
ATOM	864	CA ASP A	63159.574	-1.291	5.046	1.00	0.00	C
ATOM	865	C ASP A	63158.917	0.076	5.203	1.00	0.00	C
ATOM	866	O ASP A	63159.058	0.729	6.238	1.00	0.00	O
ATOM	867	CB ASP A	63160.782	-1.399	5.977	1.00	0.00	C
ATOM	868	CG ASP A	63161.849	-0.367	5.663	1.00	0.00	C
ATOM	869	OD1 ASP A	63162.137	-0.158	4.466	1.00	0.00	O
ATOM	870	OD2 ASP A	63162.395	0.231	6.613	1.00	0.00	O
ATOM	871	H ASP A	63160.822	-1.137	3.343	1.00	0.00	H
ATOM	872	HA ASP A	63158.857	-2.054	5.312	1.00	0.00	H
ATOM	873	1HB ASP A	63160.458	-1.253	6.997	1.00	0.00	H
ATOM	874	2HB ASP A	63161.218	-2.382	5.879	1.00	0.00	H
ATOM	875	N GLY A	64158.199	0.504	4.170	1.00	0.00	N
ATOM	876	CA GLY A	64157.531	1.793	4.215	1.00	0.00	C
ATOM	877	C GLY A	64158.292	2.866	3.462	1.00	0.00	C
ATOM	878	O GLY A	64158.356	4.014	3.901	1.00	0.00	O
ATOM	879	H GLY A	64158.122	-0.059	3.372	1.00	0.00	H
ATOM	880	1HA GLY A	64156.549	1.691	3.779	1.00	0.00	H
ATOM	881	2HA GLY A	64157.427	2.096	5.245	1.00	0.00	H
ATOM	882	N THR A	65158.870	2.492	2.325	1.00	0.00	N
ATOM	883	CA THR A	65159.630	3.431	1.509	1.00	0.00	C
ATOM	884	C THR A	65159.197	3.358	0.049	1.00	0.00	C
ATOM	885	O THR A	65159.314	2.313	-0.592	1.00	0.00	O
ATOM	886	CB THR A	65161.127	3.144	1.624	1.00	0.00	C
ATOM	887	OG1 THR A	65161.357	1.761	1.838	1.00	0.00	O
ATOM	888	CG2 THR A	65161.798	3.899	2.751	1.00	0.00	C

ATOM	889	H	THR A	65158.782	1.562	2.027	1.00	0.00	H
ATOM	890	HA	THR A	65159.435	4.427	1.880	1.00	0.00	H
ATOM	891	HB	THR A	65161.611	3.429	0.702	1.00	0.00	H
ATOM	892	HG1	THR A	65161.036	1.514	2.708	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.522	4.942	2.700	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.870	3.806	2.660	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.480	3.489	3.699	1.00	0.00	H
ATOM	896	N	PHE A	66158.697	4.474	-0.471	1.00	0.00	N
ATOM	897	CA	PHE A	66158.247	4.536	-1.858	1.00	0.00	C
ATOM	898	C	PHE A	66159.181	5.403	-2.695	1.00	0.00	C
ATOM	899	O	PHE A	66159.203	6.625	-2.553	1.00	0.00	O
ATOM	900	CB	PHE A	66156.821	5.087	-1.927	1.00	0.00	C
ATOM	901	CG	PHE A	66156.154	4.856	-3.253	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.945	3.569	-3.724	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.734	5.925	-4.028	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.330	3.354	-4.942	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.120	5.716	-5.248	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.917	4.429	-5.706	1.00	0.00	C
ATOM	907	H	PHE A	66158.629	5.274	0.089	1.00	0.00	H
ATOM	908	HA	PHE A	66158.255	3.531	-2.254	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.221	4.611	-1.167	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.845	6.151	-1.747	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.266	2.729	-3.128	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.892	6.932	-3.671	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.174	2.346	-5.299	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.798	6.558	-5.843	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.437	4.263	-6.659	1.00	0.00	H

ATOM	916	N	ARG A	67159.951	4.762	-3.568	1.00	0.00	N
ATOM	917	CA	ARG A	67160.888	5.474	-4.429	1.00	0.00	C
ATOM	918	C	ARG A	67161.917	6.237	-3.601	1.00	0.00	C
ATOM	919	O	ARG A	67162.338	7.333	-3.971	1.00	0.00	O
ATOM	920	CB	ARG A	67160.136	6.442	-5.345	1.00	0.00	C
ATOM	921	CG	ARG A	67159.205	5.749	-6.328	1.00	0.00	C
ATOM	922	CD	ARG A	67159.131	6.501	-7.648	1.00	0.00	C
ATOM	923	NE	ARG A	67158.614	5.661	-8.726	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.732	5.959	-10.018	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.348	7.072	-10.396	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.234	5.140	-10.935	1.00	0.00	N
ATOM	927	H	ARG A	67159.888	3.786	-3.635	1.00	0.00	H
ATOM	928	HA	ARG A	67161.402	4.744	-5.036	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.547	7.112	-4.737	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.855	7.019	-5.908	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.572	4.751	-6.514	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.216	5.699	-5.896	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.480	7.353	-7.525	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.122	6.839	-7.911	1.00	0.00	H
ATOM	935	HE	ARG A	67158.156	4.832	-8.475	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.726	7.693	-9.711	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.433	7.290	-11.369	1.00	0.00	H
ATOM	938	1HH2	ARG A	67157.770	4.299	-10.655	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.323	5.363	-11.906	1.00	0.00	H
ATOM	940	N	GLY A	68162.316	5.650	-2.477	1.00	0.00	N
ATOM	941	CA	GLY A	68163.293	6.288	-1.614	1.00	0.00	C
ATOM	942	C	GLY A	68162.707	7.451	-0.837	1.00	0.00	C

ATOM	943	O	GLY A	68163.417	8.399	-0.497	1.00	0.00	O
ATOM	944	H	GLY A	68161.946	4.777	-2.233	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.671	5.557	-0.914	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.111	6.649	-2.219	1.00	0.00	H
ATOM	947	N	THR A	69161.410	7.382	-0.558	1.00	0.00	N
ATOM	948	CA	THR A	69160.730	8.437	0.183	1.00	0.00	C
ATOM	949	C	THR A	69159.961	7.861	1.368	1.00	0.00	C
ATOM	950	O	THR A	69158.814	7.435	1.229	1.00	0.00	O
ATOM	951	CB	THR A	69159.775	9.199	-0.736	1.00	0.00	C
ATOM	952	OG1	THR A	69160.414	9.534	-1.956	1.00	0.00	O
ATOM	953	CG2	THR A	69159.252	10.482	-0.126	1.00	0.00	C
ATOM	954	H	THR A	69160.899	6.601	-0.857	1.00	0.00	H
ATOM	955	HA	THR A	69161.481	9.119	0.554	1.00	0.00	H
ATOM	956	HB	THR A	69158.926	8.569	-0.959	1.00	0.00	H
ATOM	957	HG1	THR A	69159.785	9.968	-2.538	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.058	10.996	0.376	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.474	10.251	0.586	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.852	11.114	-0.905	1.00	0.00	H
ATOM	961	N	ARG A	70160.601	7.852	2.533	1.00	0.00	N
ATOM	962	CA	ARG A	70159.977	7.329	3.742	1.00	0.00	C
ATOM	963	C	ARG A	70158.734	8.134	4.107	1.00	0.00	C
ATOM	964	O	ARG A	70158.803	9.349	4.297	1.00	0.00	O
ATOM	965	CB	ARG A	70160.971	7.350	4.905	1.00	0.00	C
ATOM	966	CG	ARG A	70160.431	6.721	6.179	1.00	0.00	C
ATOM	967	CD	ARG A	70161.137	7.265	7.410	1.00	0.00	C
ATOM	968	NE	ARG A	70162.447	6.649	7.608	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.112	6.674	8.761	1.00	0.00	C

ATOM	970	NH1	ARG A	70162.594	7.282	9.820	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.298	6.088	8.854	1.00	0.00	N
ATOM	972	H	ARG A	70161.513	8.206	2.580	1.00	0.00	H
ATOM	973	HA	ARG A	70159.684	6.308	3.550	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.861	6.811	4.612	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.236	8.375	5.119	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.376	6.937	6.256	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.579	5.652	6.132	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.265	8.331	7.295	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.523	7.069	8.277	1.00	0.00	H
ATOM	980	HE	ARG A	70162.853	6.193	6.841	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.700	7.725	9.757	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.099	7.296	10.684	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.693	5.628	8.059	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.798	6.107	9.720	1.00	0.00	H
ATOM	985	N	TYR A	71157.599	7.450	4.202	1.00	0.00	N
ATOM	986	CA	TYR A	71156.340	8.102	4.544	1.00	0.00	C
ATOM	987	C	TYR A	71155.897	7.724	5.954	1.00	0.00	C
ATOM	988	O	TYR A	71155.405	8.564	6.707	1.00	0.00	O
ATOM	989	CB	TYR A	71155.254	7.720	3.537	1.00	0.00	C
ATOM	990	CG	TYR A	71155.396	8.412	2.201	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.303	7.697	1.013	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.622	9.780	2.126	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.433	8.326	-0.211	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.753	10.417	0.906	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.657	9.685	-0.259	1.00	0.00	C
ATOM	996	OH	TYR A	71155.787	10.315	-1.475	1.00	0.00	O

ATOM	997	H	TYR A	71157.608	6.484	4.040	1.00	0.00	H
ATOM	998	HA	TYR A	71156.497	9.169	4.503	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.291	6.655	3.365	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.288	7.980	3.945	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.127	6.632	1.054	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.697	10.351	3.040	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.358	7.753	-1.123	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.928	11.482	0.869	1.00	0.00	H
ATOM	1005	HH	TYR A	71154.930	10.355	-1.908	1.00	0.00	H
ATOM	1006	N	PHE A	72156.076	6.455	6.305	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.696	5.966	7.625	1.00	0.00	C
ATOM	1008	C	PHE A	72156.641	4.861	8.088	1.00	0.00	C
ATOM	1009	O	PHE A	72157.508	4.418	7.337	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.258	5.448	7.604	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.990	4.464	6.500	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.698	4.904	5.218	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.029	3.101	6.745	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.452	4.002	4.201	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.783	2.194	5.730	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.494	2.645	4.458	1.00	0.00	C
ATOM	1017	H	PHE A	72156.474	5.833	5.661	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.762	6.792	8.316	1.00	0.00	H
ATOM	1019	1HB	PHE A	72154.044	4.958	8.542	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.584	6.282	7.478	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.665	5.965	5.017	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.255	2.748	7.740	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.225	4.358	3.207	1.00	0.00	H

ATOM	1024	HE2	PHE A	72153.817	1.134	5.933	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.302	1.938	3.664	1.00	0.00	H
ATOM	1026	N	THR A	73156.464	4.421	9.330	1.00	0.00	N
ATOM	1027	CA	THR A	73157.299	3.368	9.893	1.00	0.00	C
ATOM	1028	C	THR A	73156.513	2.070	10.043	1.00	0.00	C
ATOM	1029	O	THR A	73155.528	2.011	10.779	1.00	0.00	O
ATOM	1030	CB	THR A	73157.855	3.800	11.251	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.737	2.819	11.768	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.779	4.043	12.287	1.00	0.00	C
ATOM	1033	H	THR A	73155.755	4.813	9.880	1.00	0.00	H
ATOM	1034	HA	THR A	73158.123	3.199	9.215	1.00	0.00	H
ATOM	1035	HB	THR A	73158.407	4.721	11.126	1.00	0.00	H
ATOM	1036	HG1	THR A	73159.362	2.559	11.087	1.00	0.00	H
ATOM	1037	1HG2	THR A	73156.697	3.178	12.930	1.00	0.00	H
ATOM	1038	2HG2	THR A	73155.835	4.216	11.793	1.00	0.00	H
ATOM	1039	3HG2	THR A	73157.039	4.908	12.880	1.00	0.00	H
ATOM	1040	N	CYS A	74156.954	1.031	9.342	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.291	-0.267	9.397	1.00	0.00	C
ATOM	1042	C	CYS A	74157.312	-1.400	9.369	1.00	0.00	C
ATOM	1043	O	CYS A	74158.519	-1.162	9.326	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.315	-0.415	8.228	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.644	0.174	8.585	1.00	0.00	S
ATOM	1046	H	CYS A	74157.745	1.139	8.773	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.740	-0.318	10.324	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.687	0.147	7.385	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.246	-1.458	7.957	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.401	0.807	7.905	1.00	0.00	H

ATOM	1051	N	ALA A	75156.818	-2.634	9.393	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.687	-3.805	9.371	1.00	0.00	C
ATOM	1053	C	ALA A	75158.283	-4.020	7.984	1.00	0.00	C
ATOM	1054	O	ALA A	75157.729	-3.566	6.982	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.917	-5.040	9.814	1.00	0.00	C
ATOM	1056	H	ALA A	75155.847	-2.760	9.427	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.489	-3.638	10.075	1.00	0.00	H
ATOM	1058	1HB	ALA A	75155.867	-4.905	9.601	1.00	0.00	H
ATOM	1059	2HB	ALA A	75157.053	-5.188	10.875	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.284	-5.905	9.281	1.00	0.00	H
ATOM	1061	N	LEU A	76159.415	-4.714	7.933	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.087	-4.989	6.668	1.00	0.00	C
ATOM	1063	C	LEU A	76159.292	-5.989	5.836	1.00	0.00	C
ATOM	1064	O	LEU A	76158.703	-6.928	6.371	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.497	-5.526	6.922	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.526	-4.473	7.335	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.556	-5.076	8.278	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.205	-3.884	6.109	1.00	0.00	C
ATOM	1069	H	LEU A	76159.809	-5.049	8.766	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.158	-4.060	6.123	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.440	-6.270	7.703	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.846	-6.002	6.018	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.024	-3.672	7.858	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.227	-4.301	8.621	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76164.119	-5.836	7.758	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.054	-5.516	9.127	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.119	-4.423	5.908	1.00	0.00	H

ATOM	1078	2HD2	LEU A	76163.435	-2.843	6.288	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.545	-3.964	5.258	1.00	0.00	H
ATOM	1080	N	LYS A	77159.280	-5.781	4.523	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.557	-6.664	3.615	1.00	0.00	C
ATOM	1082	C	LYS A	77157.066	-6.671	3.934	1.00	0.00	C
ATOM	1083	O	LYS A	77156.405	-7.706	3.838	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.116	-8.086	3.701	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.612	-8.168	3.444	1.00	0.00	C
ATOM	1086	CD	LYS A	77160.947	-7.836	1.998	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.232	-7.030	1.896	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.397	-7.769	2.455	1.00	0.00	N
ATOM	1089	H	LYS A	77159.769	-5.015	4.155	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.696	-6.293	2.611	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.921	-8.478	4.689	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.612	-8.703	2.972	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.118	-7.467	4.090	1.00	0.00	H
ATOM	1094	2HG	LYS A	77160.950	-9.171	3.661	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.066	-8.755	1.445	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.137	-7.261	1.575	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.423	-6.812	0.855	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.107	-6.106	2.440	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.792	-8.411	1.738	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.103	-8.329	3.281	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.136	-7.099	2.751	1.00	0.00	H
ATOM	1102	N	LYS A	78156.541	-5.511	4.313	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.127	-5.382	4.646	1.00	0.00	C
ATOM	1104	C	LYS A	78154.606	-3.995	4.282	1.00	0.00	C

ATOM	1105	O	LYS A	78153.800	-3.414	5.007	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.906	-5.649	6.136	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.398	-7.014	6.589	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.107	-7.251	8.062	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.901	-8.157	8.253	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.055	-7.722	9.398	1.00	0.00	N
ATOM	1111	H	LYS A	78157.119	-4.721	4.370	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.585	-6.119	4.073	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.428	-4.895	6.706	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.850	-5.582	6.349	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.903	-7.776	6.006	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.465	-7.072	6.428	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.968	-7.715	8.519	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.912	-6.302	8.539	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.307	-8.140	7.352	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.248	-9.164	8.434	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.621	-7.164	10.069	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.669	-8.552	9.894	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.265	-7.138	9.057	1.00	0.00	H
ATOM	1124	N	ALAA	79155.073	-3.472	3.153	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.655	-2.153	2.692	1.00	0.00	C
ATOM	1126	C	ALAA	79154.517	-2.120	1.174	1.00	0.00	C
ATOM	1127	O	ALAA	79155.505	-1.978	0.454	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.643	-1.094	3.158	1.00	0.00	C
ATOM	1129	H	ALAA	79155.715	-3.984	2.618	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.694	-1.934	3.136	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.109	-0.193	3.418	1.00	0.00	H

ATOM	1132	2HB	ALA A	79156.343	-0.882	2.363	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.180	-1.458	4.022	1.00	0.00	H
ATOM	1134	N	LEU A	80153.284	-2.253	0.695	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.016	-2.239	-0.738	1.00	0.00	C
ATOM	1136	C	LEU A	80152.228	-0.993	-1.131	1.00	0.00	C
ATOM	1137	O	LEU A	80151.021	-0.912	-0.900	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.243	-3.495	-1.146	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.860	-3.568	-2.625	1.00	0.00	C
ATOM	1140	CD1	LEU A	80152.992	-4.173	-3.440	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.582	-4.372	-2.804	1.00	0.00	C
ATOM	1142	H	LEU A	80152.538	-2.364	1.320	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.965	-2.227	-1.254	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.849	-4.357	-0.909	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.338	-3.541	-0.561	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.683	-2.567	-2.994	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.928	-4.030	-2.920	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.039	-3.691	-4.404	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80152.813	-5.230	-3.574	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.732	-3.705	-2.783	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.494	-5.092	-2.005	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.611	-4.887	-3.753	1.00	0.00	H
ATOM	1153	N	PHE A	81152.918	-0.024	-1.724	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.282	1.217	-2.148	1.00	0.00	C
ATOM	1155	C	PHE A	81151.414	0.992	-3.380	1.00	0.00	C
ATOM	1156	O	PHE A	81151.765	0.211	-4.266	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.338	2.283	-2.442	1.00	0.00	C
ATOM	1158	CG	PHE A	81154.088	2.738	-1.222	1.00	0.00	C

ATOM	1159	CD1 PHE A	81153.620	3.795	-0.458	1.00	0.00	C
ATOM	1160	CD2 PHE A	81155.262	2.108	-0.840	1.00	0.00	C
ATOM	1161	CE1 PHE A	81154.307	4.216	0.663	1.00	0.00	C
ATOM	1162	CE2 PHE A	81155.954	2.524	0.282	1.00	0.00	C
ATOM	1163	CZ PHE A	81155.476	3.580	1.035	1.00	0.00	C
ATOM	1164	H PHE A	81153.878	-0.147	-1.880	1.00	0.00	H
ATOM	1165	HA PHE A	81151.654	1.560	-1.339	1.00	0.00	H
ATOM	1166	1HB PHE A	81154.056	1.886	-3.143	1.00	0.00	H
ATOM	1167	2HB PHE A	81152.857	3.146	-2.878	1.00	0.00	H
ATOM	1168	HD1 PHE A	81152.706	4.293	-0.747	1.00	0.00	H
ATOM	1169	HD2 PHE A	81155.637	1.284	-1.428	1.00	0.00	H
ATOM	1170	HE1 PHE A	81153.931	5.041	1.250	1.00	0.00	H
ATOM	1171	HE2 PHE A	81156.868	2.025	0.569	1.00	0.00	H
ATOM	1172	HZ PHE A	81156.015	3.907	1.911	1.00	0.00	H
ATOM	1173	N VAL A	82150.279	1.680	-3.431	1.00	0.00	N
ATOM	1174	CA VAL A	82149.360	1.560	-4.554	1.00	0.00	C
ATOM	1175	C VAL A	82148.457	2.783	-4.654	1.00	0.00	C
ATOM	1176	O VAL A	82148.391	3.594	-3.730	1.00	0.00	O
ATOM	1177	CB VAL A	82148.483	0.299	-4.436	1.00	0.00	C
ATOM	1178	CG1 VAL A	82149.314	-0.953	-4.669	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.799	0.250	-3.079	1.00	0.00	C
ATOM	1180	H VAL A	82150.055	2.288	-2.697	1.00	0.00	H
ATOM	1181	HA VAL A	82149.945	1.481	-5.459	1.00	0.00	H
ATOM	1182	HB VAL A	82147.719	0.344	-5.198	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82149.883	-0.844	-5.579	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82148.659	-1.808	-4.754	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82149.988	-1.098	-3.838	1.00	0.00	H

ATOM	1186	1HG2 VAL A	82147.759	-0.772	-2.732	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82146.796	0.639	-3.166	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82148.356	0.848	-2.373	1.00	0.00	H
ATOM	1189	N LYS A	83147.768	2.913	-5.780	1.00	0.00	N
ATOM	1190	CA LYS A	83146.872	4.040	-6.002	1.00	0.00	C
ATOM	1191	C LYS A	83145.593	3.895	-5.186	1.00	0.00	C
ATOM	1192	O LYS A	83144.905	2.877	-5.259	1.00	0.00	O
ATOM	1193	CB LYS A	83146.539	4.163	-7.488	1.00	0.00	C
ATOM	1194	CG LYS A	83147.683	4.726	-8.314	1.00	0.00	C
ATOM	1195	CD LYS A	83147.295	4.875	-9.778	1.00	0.00	C
ATOM	1196	CE LYS A	83148.101	3.940	-10.665	1.00	0.00	C
ATOM	1197	NZ LYS A	83147.243	3.255	-11.671	1.00	0.00	N
ATOM	1198	H LYS A	83147.865	2.234	-6.482	1.00	0.00	H
ATOM	1199	HA LYS A	83147.383	4.937	-5.685	1.00	0.00	H
ATOM	1200	1HB LYS A	83146.291	3.184	-7.873	1.00	0.00	H
ATOM	1201	2HB LYS A	83145.685	4.813	-7.604	1.00	0.00	H
ATOM	1202	1HG LYS A	83147.951	5.696	-7.923	1.00	0.00	H
ATOM	1203	2HG LYS A	83148.529	4.059	-8.239	1.00	0.00	H
ATOM	1204	1HD LYS A	83146.247	4.647	-9.890	1.00	0.00	H
ATOM	1205	2HD LYS A	83147.478	5.895	-10.085	1.00	0.00	H
ATOM	1206	1HE LYS A	83148.856	4.515	-11.181	1.00	0.00	H
ATOM	1207	2HE LYS A	83148.577	3.198	-10.043	1.00	0.00	H
ATOM	1208	1HZ LYS A	83146.567	2.625	-11.195	1.00	0.00	H
ATOM	1209	2HZ LYS A	83147.832	2.688	-12.316	1.00	0.00	H
ATOM	1210	3HZ LYS A	83146.716	3.956	-12.229	1.00	0.00	H
ATOM	1211	N LEU A	84145.285	4.925	-4.406	1.00	0.00	N
ATOM	1212	CA LEU A	84144.093	4.931	-3.566	1.00	0.00	C

ATOM	1213	C	LEU A	84142.838	4.649	-4.389	1.00	0.00 C
ATOM	1214	O	LEU A	84141.964	3.893	-3.964	1.00	0.00 O
ATOM	1215	CB	LEU A	84143.962	6.281	-2.858	1.00	0.00 C
ATOM	1216	CG	LEU A	84142.694	6.455	-2.019	1.00	0.00 C
ATOM	1217	CD1	LEU A	84142.804	5.676	-0.718	1.00	0.00 C
ATOM	1218	CD2	LEU A	84142.439	7.929	-1.741	1.00	0.00 C
ATOM	1219	H	LEU A	84145.878	5.706	-4.394	1.00	0.00 H
ATOM	1220	HA	LEU A	84144.206	4.156	-2.825	1.00	0.00 H
ATOM	1221	1HB	LEU A	84144.818	6.409	-2.212	1.00	0.00 H
ATOM	1222	2HB	LEU A	84143.980	7.058	-3.607	1.00	0.00 H
ATOM	1223	HG	LEU A	84141.850	6.066	-2.570	1.00	0.00 H
ATOM	1224	1HD1	LEU A	84141.898	5.803	-0.145	1.00	0.00 H
ATOM	1225	2HD1	LEU A	84143.646	6.044	-0.149	1.00	0.00 H
ATOM	1226	3HD1	LEU A	84142.948	4.628	-0.937	1.00	0.00 H
ATOM	1227	1HD2	LEU A	84141.378	8.095	-1.627	1.00	0.00 H
ATOM	1228	2HD2	LEU A	84142.809	8.520	-2.565	1.00	0.00 H
ATOM	1229	3HD2	LEU A	84142.948	8.218	-0.834	1.00	0.00 H
ATOM	1230	N	LYS A	85142.757	5.261	-5.565	1.00	0.00 N
ATOM	1231	CA	LYS A	85141.609	5.075	-6.444	1.00	0.00 C
ATOM	1232	C	LYS A	85141.506	3.625	-6.914	1.00	0.00 C
ATOM	1233	O	LYS A	85140.431	3.163	-7.297	1.00	0.00 O
ATOM	1234	CB	LYS A	85141.705	6.009	-7.652	1.00	0.00 C
ATOM	1235	CG	LYS A	85142.906	5.733	-8.542	1.00	0.00 C
ATOM	1236	CD	LYS A	85142.926	6.656	-9.750	1.00	0.00 C
ATOM	1237	CE	LYS A	85144.334	6.833	-10.293	1.00	0.00 C
ATOM	1238	NZ	LYS A	85145.199	7.606	-9.359	1.00	0.00 N
ATOM	1239	H	LYS A	85143.485	5.853	-5.849	1.00	0.00 H

ATOM	1240	HA	LYS A	85140.720	5.321	-5.882	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.811	5.902	-8.247	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.773	7.028	-7.299	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.809	5.886	-7.970	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.863	4.709	-8.882	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.303	6.234	-10.524	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.537	7.621	-9.459	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.771	5.857	-10.450	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.279	7.357	-11.237	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.163	7.216	-9.359	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.816	7.555	-8.394	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.238	8.604	-9.652	1.00	0.00	H
ATOM	1252	N	SER A	86142.628	2.912	-6.880	1.00	0.00	N
ATOM	1253	CA	SER A	86142.658	1.516	-7.302	1.00	0.00	C
ATOM	1254	C	SER A	86142.572	0.581	-6.100	1.00	0.00	C
ATOM	1255	O	SER A	86143.096	-0.532	-6.129	1.00	0.00	O
ATOM	1256	CB	SER A	86143.933	1.229	-8.096	1.00	0.00	C
ATOM	1257	OG	SER A	86143.882	1.831	-9.379	1.00	0.00	O
ATOM	1258	H	SER A	86143.455	3.334	-6.565	1.00	0.00	H
ATOM	1259	HA	SER A	86141.803	1.345	-7.938	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.785	1.623	-7.562	1.00	0.00	H
ATOM	1261	2HB	SER A	86144.046	0.162	-8.218	1.00	0.00	H
ATOM	1262	HG	SER A	86143.552	2.728	-9.298	1.00	0.00	H
ATOM	1263	N	CYS A	87141.909	1.041	-5.043	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.754	0.245	-3.831	1.00	0.00	C
ATOM	1265	C	CYS A	87140.287	-0.085	-3.581	1.00	0.00	C
ATOM	1266	O	CYS A	87139.398	0.455	-4.240	1.00	0.00	O

ATOM	1267	CB	CYS A	87142.334	0.991	-2.628	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.132	0.871	-2.480	1.00	0.00	S
ATOM	1269	H	CYS A	87141.513	1.936	-5.080	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.300	-0.678	-3.968	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.080	2.038	-2.707	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.902	0.590	-1.722	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.490	1.762	-2.492	1.00	0.00	H
ATOM	1274	N	ARG A	88140.038	-0.975	-2.625	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.677	-1.376	-2.290	1.00	0.00	C
ATOM	1276	C	ARG A	88138.516	-1.547	-0.779	1.00	0.00	C
ATOM	1277	O	ARG A	88139.430	-2.015	-0.100	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.316	-2.679	-3.006	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.957	-2.642	-3.687	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.152	-3.901	-3.401	1.00	0.00	C
ATOM	1281	NE	ARG A	88136.210	-4.851	-4.511	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.562	-4.684	-5.662	1.00	0.00	C
ATOM	1283	NH1	ARG A	88134.809	-3.609	-5.860	1.00	0.00	N
ATOM	1284	NH2	ARG A	88135.669	-5.596	-6.620	1.00	0.00	N
ATOM	1285	H	ARG A	88140.789	-1.371	-2.134	1.00	0.00	H
ATOM	1286	HA	ARG A	88138.012	-0.594	-2.626	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.065	-2.882	-3.758	1.00	0.00	H
ATOM	1288	2HB	ARG A	88138.314	-3.485	-2.287	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.406	-1.788	-3.325	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.102	-2.553	-4.754	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.549	-4.374	-2.515	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.123	-3.624	-3.230	1.00	0.00	H
ATOM	1293	HE	ARG A	88136.758	-5.654	-4.392	1.00	0.00	H

ATOM	1294	1HH1	ARG A	88134.726	-2.918	-5.142	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88134.326	-3.490	-6.727	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88136.235	-6.408	-6.476	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88135.182	-5.472	-7.484	1.00	0.00	H
ATOM	1298	N	PRO A	89137.347	-1.171	-0.232	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.076	-1.289	1.206	1.00	0.00	C
ATOM	1300	C	PRO A	89137.299	-2.706	1.721	1.00	0.00	C
ATOM	1301	O	PRO A	89136.768	-3.669	1.167	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.598	-0.903	1.328	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.324	-0.061	0.130	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.200	-0.603	-0.964	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.679	-0.600	1.779	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.990	-1.796	1.332	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.442	-0.350	2.242	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.284	-0.143	-0.145	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.578	0.967	0.338	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.679	-1.369	-1.520	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.518	0.192	-1.622	1.00	0.00	H
ATOM	1312	N	ASP A	90138.086	-2.827	2.785	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.377	-4.128	3.376	1.00	0.00	C
ATOM	1314	C	ASP A	90137.565	-4.341	4.650	1.00	0.00	C
ATOM	1315	O	ASP A	90137.724	-3.612	5.629	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.871	-4.249	3.684	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.326	-5.692	3.778	1.00	0.00	C
ATOM	1318	OD1	ASP A	90141.391	-5.940	4.383	1.00	0.00	O
ATOM	1319	OD2	ASP A	90139.619	-6.574	3.247	1.00	0.00	O
ATOM	1320	H	ASP A	90138.479	-2.022	3.183	1.00	0.00	H

ATOM	1321	HA	ASP A	90138.104	-4.887	2.658	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.433	-3.763	2.900	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.078	-3.763	4.626	1.00	0.00	H
ATOM	1324	N	SER A	91136.693	-5.344	4.629	1.00	0.00	N
ATOM	1325	CA	SER A	91135.856	-5.653	5.782	1.00	0.00	C
ATOM	1326	C	SER A	91136.446	-6.804	6.591	1.00	0.00	C
ATOM	1327	O	SER A	91135.716	-7.595	7.188	1.00	0.00	O
ATOM	1328	CB	SER A	91134.438	-6.007	5.329	1.00	0.00	C
ATOM	1329	OG	SER A	91133.484	-5.649	6.314	1.00	0.00	O
ATOM	1330	H	SER A	91136.611	-5.890	3.819	1.00	0.00	H
ATOM	1331	HA	SER A	91135.816	-4.774	6.407	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.211	-5.476	4.417	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.375	-7.071	5.152	1.00	0.00	H
ATOM	1334	HG	SER A	91133.237	-4.729	6.201	1.00	0.00	H
ATOM	1335	N	ARG A	92137.772	-6.891	6.606	1.00	0.00	N
ATOM	1336	CA	ARG A	92138.461	-7.945	7.342	1.00	0.00	C
ATOM	1337	C	ARG A	92138.240	-7.794	8.843	1.00	0.00	C
ATOM	1338	O	ARG A	92138.202	-8.781	9.578	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.957	-7.921	7.029	1.00	0.00	C
ATOM	1340	CG	ARG A	92140.331	-8.699	5.777	1.00	0.00	C
ATOM	1341	CD	ARG A	92141.095	-9.970	6.115	1.00	0.00	C
ATOM	1342	NE	ARG A	92140.212	-11.130	6.208	1.00	0.00	N
ATOM	1343	CZ	ARG A	92140.636	-12.390	6.142	1.00	0.00	C
ATOM	1344	NH1	ARG A	92141.927	-12.656	5.982	1.00	0.00	N
ATOM	1345	NH2	ARG A	92139.767	-13.388	6.238	1.00	0.00	N
ATOM	1346	H	ARG A	92138.301	-6.231	6.111	1.00	0.00	H
ATOM	1347	HA	ARG A	92138.051	-8.893	7.024	1.00	0.00	H

ATOM	1348	1HB	ARG A	92140.268	-6.895	6.895	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.495	-8.343	7.864	1.00	0.00	H
ATOM	1350	1HG	ARG A	92139.428	-8.964	5.248	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.949	-8.075	5.148	1.00	0.00	H
ATOM	1352	1HD	ARG A	92141.829	-10.149	5.343	1.00	0.00	H
ATOM	1353	2HD	ARG A	92141.596	-9.832	7.062	1.00	0.00	H
ATOM	1354	HE	ARG A	92139.254	-10.962	6.327	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92142.588	-11.910	5.910	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92142.238	-13.606	5.934	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92138.794	-13.193	6.359	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92140.085	-14.335	6.188	1.00	0.00	H
ATOM	1359	N	PHE A	93138.095	-6.552	9.292	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.878	-6.270	10.707	1.00	0.00	C
ATOM	1361	C	PHE A	93136.754	-5.258	10.894	1.00	0.00	C
ATOM	1362	O	PHE A	93136.768	-4.466	11.837	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.165	-5.746	11.347	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.198	-6.812	11.578	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.387	-7.349	12.840	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.980	-7.275	10.532	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.338	-8.329	13.057	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.932	-8.255	10.741	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.111	-8.783	12.005	1.00	0.00	C
ATOM	1370	H	PHE A	93138.135	-5.807	8.657	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.598	-7.195	11.189	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.599	-4.997	10.703	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.927	-5.299	12.301	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.783	-6.996	13.663	1.00	0.00	H

ATOM	1375	HD2 PHE A	93140.841	-6.863	9.543	1.00	0.00	H
ATOM	1376	HE1 PHE A	93141.476	-8.739	14.046	1.00	0.00	H
ATOM	1377	HE2 PHE A	93142.535	-8.607	9.918	1.00	0.00	H
ATOM	1378	HZ PHE A	93142.854	-9.548	12.171	1.00	0.00	H
ATOM	1379	N ALA A	94135.781	-5.288	9.989	1.00	0.00	N
ATOM	1380	CA ALA A	94134.648	-4.371	10.055	1.00	0.00	C
ATOM	1381	C ALA A	94133.700	-4.751	11.186	1.00	0.00	C
ATOM	1382	O ALA A	94133.394	-5.927	11.385	1.00	0.00	O
ATOM	1383	CB ALA A	94133.907	-4.352	8.726	1.00	0.00	C
ATOM	1384	H ALA A	94135.825	-5.940	9.260	1.00	0.00	H
ATOM	1385	HA ALA A	94135.033	-3.379	10.239	1.00	0.00	H
ATOM	1386	1HB ALA A	94133.156	-3.578	8.744	1.00	0.00	H
ATOM	1387	2HB ALA A	94133.435	-5.310	8.564	1.00	0.00	H
ATOM	1388	3HB ALA A	94134.607	-4.157	7.927	1.00	0.00	H
ATOM	1389	N SER A	95133.237	-3.748	11.925	1.00	0.00	N
ATOM	1390	CA SER A	95132.321	-3.978	13.038	1.00	0.00	C
ATOM	1391	C SER A	95130.877	-4.031	12.551	1.00	0.00	C
ATOM	1392	O SER A	95130.505	-3.343	11.600	1.00	0.00	O
ATOM	1393	CB SER A	95132.478	-2.878	14.088	1.00	0.00	C
ATOM	1394	OG SER A	95133.833	-2.484	14.216	1.00	0.00	O
ATOM	1395	H SER A	95133.515	-2.833	11.717	1.00	0.00	H
ATOM	1396	HA SER A	95132.573	-4.928	13.483	1.00	0.00	H
ATOM	1397	1HB SER A	95131.892	-2.019	13.797	1.00	0.00	H
ATOM	1398	2HB SER A	95132.129	-3.244	15.043	1.00	0.00	H
ATOM	1399	HG SER A	95134.359	-3.233	14.506	1.00	0.00	H
ATOM	1400	N LEU A	96130.066	-4.852	13.209	1.00	0.00	N
ATOM	1401	CA LEU A	96128.660	-4.995	12.845	1.00	0.00	C

ATOM	1402	C	LEU A	96127.765	-4.247	13.824	1.00	0.00	C
ATOM	1403	O	LEU A	96127.065	-3.306	13.451	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.270	-6.474	12.803	1.00	0.00	C
ATOM	1405	CG	LEU A	96126.904	-6.765	12.181	1.00	0.00	C
ATOM	1406	CD1	LEU A	96127.029	-6.940	10.676	1.00	0.00	C
ATOM	1407	CD2	LEU A	96126.283	-8.001	12.814	1.00	0.00	C
ATOM	1408	H	LEU A	96130.420	-5.375	13.959	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.529	-4.570	11.865	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.021	-7.007	12.238	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.267	-6.852	13.814	1.00	0.00	H
ATOM	1412	HG	LEU A	96126.245	-5.928	12.365	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96127.596	-7.834	10.463	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96127.536	-6.085	10.254	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96126.045	-7.026	10.239	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.517	-8.868	12.214	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96125.211	-7.879	12.867	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.681	-8.133	13.809	1.00	0.00	H
ATOM	1419	N	GLN A	97127.795	-4.677	15.078	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.988	-4.054	16.120	1.00	0.00	C
ATOM	1421	C	GLN A	97125.500	-4.158	15.795	1.00	0.00	C
ATOM	1422	O	GLN A	97124.887	-3.195	15.336	1.00	0.00	O
ATOM	1423	CB	GLN A	97127.383	-2.585	16.292	1.00	0.00	C
ATOM	1424	CG	GLN A	97128.660	-2.387	17.092	1.00	0.00	C
ATOM	1425	CD	GLN A	97128.551	-2.923	18.506	1.00	0.00	C
ATOM	1426	OE1	GLN A	97127.475	-3.328	18.947	1.00	0.00	O
ATOM	1427	NE2	GLN A	97129.668	-2.927	19.224	1.00	0.00	N
ATOM	1428	H	GLN A	97128.375	-5.431	15.307	1.00	0.00	H

ATOM	1429	HA	GLN A	97127.180	-4.578	17.045	1.00	0.00	H
ATOM	1430	1HB	GLN A	97127.523	-2.147	15.316	1.00	0.00	H
ATOM	1431	2HB	GLN A	97126.583	-2.066	16.799	1.00	0.00	H
ATOM	1432	1HG	GLN A	97129.467	-2.901	16.591	1.00	0.00	H
ATOM	1433	2HG	GLN A	97128.881	-1.331	17.137	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97130.488	-2.589	18.808	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97129.626	-3.268	20.142	1.00	0.00	H
ATOM	1436	N	PRO A	98124.898	-5.338	16.027	1.00	0.00	N
ATOM	1437	CA	PRO A	98123.475	-5.564	15.756	1.00	0.00	C
ATOM	1438	C	PRO A	98122.587	-4.511	16.408	1.00	0.00	C
ATOM	1439	O	PRO A	98122.406	-4.502	17.625	1.00	0.00	O
ATOM	1440	CB	PRO A	98123.209	-6.941	16.370	1.00	0.00	C
ATOM	1441	CG	PRO A	98124.533	-7.622	16.362	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.556	-6.540	16.573	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.275	-5.595	14.695	1.00	0.00	H
ATOM	1444	1HB	PRO A	98122.830	-6.823	17.374	1.00	0.00	H
ATOM	1445	2HB	PRO A	98122.489	-7.474	15.767	1.00	0.00	H
ATOM	1446	1HG	PRO A	98124.581	-8.344	17.163	1.00	0.00	H
ATOM	1447	2HG	PRO A	98124.692	-8.107	15.410	1.00	0.00	H
ATOM	1448	1HD	PRO A	98125.767	-6.421	17.625	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.462	-6.764	16.028	1.00	0.00	H
ATOM	1450	N	SER A	99122.033	-3.622	15.588	1.00	0.00	N
ATOM	1451	CA	SER A	99121.163	-2.563	16.086	1.00	0.00	C
ATOM	1452	C	SER A	99120.011	-2.306	15.120	1.00	0.00	C
ATOM	1453	O	SER A	99118.848	-2.269	15.521	1.00	0.00	O
ATOM	1454	CB	SER A	99121.962	-1.275	16.299	1.00	0.00	C
ATOM	1455	OG	SER A	99122.453	-1.192	17.625	1.00	0.00	O

ATOM	1456	H	SER A	99122.215	-3.680	14.627	1.00	0.00	H
ATOM	1457	HA	SER A	99120.757	-2.884	17.034	1.00	0.00	H
ATOM	1458	1HB	SER A	99122.799	-1.257	15.617	1.00	0.00	H
ATOM	1459	2HB	SER A	99121.325	-0.423	16.110	1.00	0.00	H
ATOM	1460	HG	SER A	99123.072	-0.463	17.693	1.00	0.00	H
ATOM	1461	N	GLY A	100120.343	-2.127	13.845	1.00	0.00	N
ATOM	1462	CA	GLY A	100119.326	-1.877	12.843	1.00	0.00	C
ATOM	1463	C	GLY A	100119.250	-0.413	12.447	1.00	0.00	C
ATOM	1464	O	GLY A	100120.253	0.297	12.497	1.00	0.00	O
ATOM	1465	H	GLY A	100121.287	-2.168	13.584	1.00	0.00	H
ATOM	1466	1HA	GLY A	100119.548	-2.464	11.965	1.00	0.00	H
ATOM	1467	2HA	GLY A	100118.367	-2.182	13.234	1.00	0.00	H
ATOM	1468	N	PRO A	101118.061	0.071	12.047	1.00	0.00	N
ATOM	1469	CA	PRO A	101117.873	1.468	11.642	1.00	0.00	C
ATOM	1470	C	PRO A	101117.984	2.431	12.820	1.00	0.00	C
ATOM	1471	O	PRO A	101118.008	2.012	13.977	1.00	0.00	O
ATOM	1472	CB	PRO A	101116.454	1.486	11.070	1.00	0.00	C
ATOM	1473	CG	PRO A	101115.761	0.350	11.740	1.00	0.00	C
ATOM	1474	CD	PRO A	101116.810	-0.705	11.956	1.00	0.00	C
ATOM	1475	HA	PRO A	101118.577	1.756	10.876	1.00	0.00	H
ATOM	1476	1HB	PRO A	101115.982	2.430	11.300	1.00	0.00	H
ATOM	1477	2HB	PRO A	101116.492	1.347	10.000	1.00	0.00	H
ATOM	1478	1HG	PRO A	101115.355	0.675	12.686	1.00	0.00	H
ATOM	1479	2HG	PRO A	101114.975	-0.028	11.103	1.00	0.00	H
ATOM	1480	1HD	PRO A	101116.621	-1.241	12.874	1.00	0.00	H
ATOM	1481	2HD	PRO A	101116.839	-1.386	11.119	1.00	0.00	H
ATOM	1482	N	SER A	102118.051	3.723	12.516	1.00	0.00	N

ATOM	1483	CA	SER A 102118.160	4.747	13.549	1.00	0.00	C
ATOM	1484	C	SER A 102116.884	5.579	13.625	1.00	0.00	C
ATOM	1485	O	SER A 102116.301	5.744	14.697	1.00	0.00	O
ATOM	1486	CB	SER A 102119.359	5.655	13.274	1.00	0.00	C
ATOM	1487	OG	SER A 102120.529	5.162	13.906	1.00	0.00	O
ATOM	1488	H	SER A 102118.028	3.994	11.574	1.00	0.00	H
ATOM	1489	HA	SER A 102118.307	4.248	14.496	1.00	0.00	H
ATOM	1490	1HB	SER A 102119.535	5.703	12.209	1.00	0.00	H
ATOM	1491	2HB	SER A 102119.152	6.646	13.648	1.00	0.00	H
ATOM	1492	HG	SER A 102120.966	5.877	14.372	1.00	0.00	H
ATOM	1493	N	SER A 103116.457	6.103	12.480	1.00	0.00	N
ATOM	1494	CA	SER A 103115.250	6.919	12.416	1.00	0.00	C
ATOM	1495	C	SER A 103114.308	6.412	11.330	1.00	0.00	C
ATOM	1496	O	SER A 103113.126	6.175	11.581	1.00	0.00	O
ATOM	1497	CB	SER A 103115.612	8.382	12.152	1.00	0.00	C
ATOM	1498	OG	SER A 103114.760	9.256	12.872	1.00	0.00	O
ATOM	1499	H	SER A 103116.965	5.936	11.659	1.00	0.00	H
ATOM	1500	HA	SER A 103114.751	6.848	13.371	1.00	0.00	H
ATOM	1501	1HB	SER A 103116.631	8.559	12.459	1.00	0.00	H
ATOM	1502	2HB	SER A 103115.513	8.589	11.096	1.00	0.00	H
ATOM	1503	HG	SER A 103114.880	10.154	12.553	1.00	0.00	H
ATOM	1504	N	GLY A 104114.838	6.248	10.122	1.00	0.00	N
ATOM	1505	CA	GLY A 104114.030	5.770	9.015	1.00	0.00	C
ATOM	1506	C	GLY A 104114.428	4.377	8.566	1.00	0.00	C
ATOM	1507	O	GLY A 104113.527	3.529	8.397	1.00	0.00	O
ATOM	1508	OXT	GLY A 104115.639	4.137	8.382	1.00	0.00	O
ATOM	1509	H	GLY A 104115.786	6.453	9.982	1.00	0.00	H

ATOM 1510 1HA GLY A 104 112.994 5.756 9.319 1.00 0.00 H
 ATOM 1511 2HA GLY A 104 114.141 6.450 8.183 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 12

ATOM 1	N	GLY A	1114.316	12.945	11.802	1.00	0.00	N
ATOM 2	CA	GLY A	1115.335	13.468	10.850	1.00	0.00	C
ATOM 3	C	GLY A	1116.588	12.617	10.816	1.00	0.00	C
ATOM 4	O	GLY A	1117.700	13.130	10.948	1.00	0.00	O
ATOM 5	1H	GLY A	1114.365	13.468	12.701	1.00	0.00	H
ATOM 6	2H	GLY A	1114.488	11.937	11.991	1.00	0.00	H
ATOM 7	3H	GLY A	1113.363	13.054	11.401	1.00	0.00	H
ATOM 8	1HA	GLY A	1114.905	13.496	9.860	1.00	0.00	H
ATOM 9	2HA	GLY A	1115.603	14.472	11.144	1.00	0.00	H
ATOM10	N	SER A	2116.410	11.312	10.639	1.00	0.00	N
ATOM11	CA	SER A	2117.536	10.386	10.588	1.00	0.00	C
ATOM12	C	SER A	2118.226	10.442	9.227	1.00	0.00	C
ATOM13	O	SER A	2117.567	10.471	8.188	1.00	0.00	O
ATOM14	CB	SER A	2117.064	8.960	10.874	1.00	0.00	C
ATOM15	OG	SER A	2116.474	8.866	12.159	1.00	0.00	O
ATOM16	H	SER A	2115.500	10.962	10.539	1.00	0.00	H
ATOM17	HA	SER A	2118.243	10.682	11.348	1.00	0.00	H
ATOM18	1HB	SER A	2116.334	8.668	10.134	1.00	0.00	H
ATOM19	2HB	SER A	2117.910	8.289	10.830	1.00	0.00	H
ATOM20	HG	SER A	2116.087	7.995	12.271	1.00	0.00	H
ATOM21	N	SER A	3119.554	10.458	9.243	1.00	0.00	N

ATOM22	CA	SER A	3120.332	10.510	8.011	1.00	0.00	C
ATOM23	C	SER A	3120.013	11.775	7.220	1.00	0.00	C
ATOM24	O	SER A	3118.997	12.427	7.457	1.00	0.00	O
ATOM25	CB	SER A	3120.053	9.274	7.154	1.00	0.00	C
ATOM26	OG	SER A	3121.235	8.811	6.525	1.00	0.00	O
ATOM27	H	SER A	3120.022	10.433	10.103	1.00	0.00	H
ATOM28	HA	SER A	3121.378	10.522	8.280	1.00	0.00	H
ATOM29	1HB	SER A	3119.660	8.486	7.779	1.00	0.00	H
ATOM30	2HB	SER A	3119.328	9.524	6.392	1.00	0.00	H
ATOM31	HG	SER A	3121.720	9.557	6.164	1.00	0.00	H
ATOM32	N	GLY A	4120.889	12.115	6.281	1.00	0.00	N
ATOM33	CA	GLY A	4120.684	13.301	5.469	1.00	0.00	C
ATOM34	C	GLY A	4120.052	12.984	4.129	1.00	0.00	C
ATOM35	O	GLY A	4119.110	13.655	3.705	1.00	0.00	O
ATOM36	H	GLY A	4121.683	11.557	6.137	1.00	0.00	H
ATOM37	1HA	GLY A	4120.041	13.983	6.006	1.00	0.00	H
ATOM38	2HA	GLY A	4121.637	13.778	5.301	1.00	0.00	H
ATOM39	N	SER A	5120.569	11.960	3.460	1.00	0.00	N
ATOM40	CA	SER A	5120.050	11.555	2.158	1.00	0.00	C
ATOM41	C	SER A	5120.184	12.684	1.144	1.00	0.00	C
ATOM42	O	SER A	5119.259	13.471	0.949	1.00	0.00	O
ATOM43	CB	SER A	5118.584	11.134	2.280	1.00	0.00	C
ATOM44	OG	SER A	5118.066	10.720	1.027	1.00	0.00	O
ATOM45	H	SER A	5121.319	11.463	3.849	1.00	0.00	H
ATOM46	HA	SER A	5120.630	10.710	1.819	1.00	0.00	H
ATOM47	1HB	SER A	5118.503	10.314	2.977	1.00	0.00	H
ATOM48	2HB	SER A	5118.001	11.970	2.639	1.00	0.00	H

ATOM49	HG	SER A	5118.141	9.766	0.950	1.00	0.00 H
ATOM50	N	SER A	6121.344	12.757	0.497	1.00	0.00 N
ATOM51	CA	SER A	6121.600	13.791	-0.499	1.00	0.00 C
ATOM52	C	SER A	6122.490	13.259	-1.618	1.00	0.00 C
ATOM53	O	SER A	6122.136	13.333	-2.794	1.00	0.00 O
ATOM54	CB	SER A	6122.256	15.008	0.156	1.00	0.00 C
ATOM55	OG	SER A	6123.481	14.656	0.775	1.00	0.00 O
ATOM56	H	SER A	6122.043	12.101	0.695	1.00	0.00 H
ATOM57	HA	SER A	6120.651	14.088	-0.920	1.00	0.00 H
ATOM58	1HB	SER A	6122.451	15.757	-0.597	1.00	0.00 H
ATOM59	2HB	SER A	6121.592	15.414	0.903	1.00	0.00 H
ATOM60	HG	SER A	6123.749	15.356	1.375	1.00	0.00 H
ATOM61	N	GLY A	7123.647	12.724	-1.242	1.00	0.00 N
ATOM62	CA	GLY A	7124.570	12.187	-2.226	1.00	0.00 C
ATOM63	C	GLY A	7124.390	10.697	-2.437	1.00	0.00 C
ATOM64	O	GLY A	7124.507	9.911	-1.497	1.00	0.00 O
ATOM65	H	GLY A	7123.876	12.693	-0.291	1.00	0.00 H
ATOM66	1HA	GLY A	7124.412	12.695	-3.166	1.00	0.00 H
ATOM67	2HA	GLY A	7125.580	12.374	-1.894	1.00	0.00 H
ATOM68	N	LEU A	8124.104	10.307	-3.675	1.00	0.00 N
ATOM69	CA	LEU A	8123.908	8.901	-4.008	1.00	0.00 C
ATOM70	C	LEU A	8125.039	8.389	-4.894	1.00	0.00 C
ATOM71	O	LEU A	8124.817	7.581	-5.796	1.00	0.00 O
ATOM72	CB	LEU A	8122.563	8.706	-4.712	1.00	0.00 C
ATOM73	CG	LEU A	8121.376	9.401	-4.044	1.00	0.00 C
ATOM74	CD1	LEU A	8120.361	9.844	-5.086	1.00	0.00 C
ATOM75	CD2	LEU A	8120.727	8.480	-3.022	1.00	0.00 C

ATOM76	H	LEU A	8124.024	10.981	-4.382	1.00	0.00	H	
ATOM77	HA	LEU A	8123.906	8.339	-3.086	1.00	0.00	H	
ATOM78	1HB	LEU A	8122.652	9.080	-5.721	1.00	0.00	H	
ATOM79	2HB	LEU A	8122.354	7.647	-4.755	1.00	0.00	H	
ATOM80	HG	LEU A	8121.727	10.282	-3.526	1.00	0.00	H	
ATOM81	1HD1	LEU A	8120.435	9.206	-5.954	1.00	0.00	H	
ATOM82	2HD1	LEU A	8120.560	10.866	-5.372	1.00	0.00	H	
ATOM83	3HD1	LEU A	8119.366	9.773	-4.672	1.00	0.00	H	
ATOM84	1HD2	LEU A	8120.372	9.063	-2.185	1.00	0.00	H	
ATOM85	2HD2	LEU A	8121.452	7.758	-2.676	1.00	0.00	H	
ATOM86	3HD2	LEU A	8119.895	7.964	-3.479	1.00	0.00	H	
ATOM87	N	ALA A	9126.252	8.865	-4.630	1.00	0.00	N	
ATOM88	CA	ALA A	9127.418	8.456	-5.403	1.00	0.00	C	
ATOM89	C	ALA A	9128.707	8.716	-4.631	1.00	0.00	C	
ATOM90	O	ALA A	9129.394	9.710	-4.866	1.00	0.00	O	
ATOM91	CB	ALA A	9127.446	9.182	-6.740	1.00	0.00	C	
ATOM92	H	ALA A	9126.364	9.507	-3.899	1.00	0.00	H	
ATOM93	HA	ALA A	9127.334	7.396	-5.598	1.00	0.00	H	
ATOM94	1HB	ALA A	9128.471	9.348	-7.038	1.00	0.00	H	
ATOM95	2HB	ALA A	9126.940	10.132	-6.644	1.00	0.00	H	
ATOM96	3HB	ALA A	9126.947	8.582	-7.486	1.00	0.00	H	
ATOM97	N	MET A	10129.030	7.815	-3.707	1.00	0.00	N	
ATOM98	CA	MET A	10130.237	7.947	-2.899	1.00	0.00	C	
ATOM99	C	MET A	10130.223	9.252	-2.106	1.00	0.00	C	
ATOM	100	O	MET A	10130.923	10.204	-2.449	1.00	0.00	O
ATOM	101	CB	MET A	10131.480	7.891	-3.790	1.00	0.00	C
ATOM	102	CG	MET A	10131.435	6.782	-4.829	1.00	0.00	C

ATOM	103	SD	MET A	10130.940	7.377	-6.458	1.00	0.00 S
ATOM	104	CE	MET A	10132.189	6.616	-7.491	1.00	0.00 C
ATOM	105	H	MET A	10128.441	7.044	-3.566	1.00	0.00 H
ATOM	106	HA	MET A	10130.263	7.118	-2.207	1.00	0.00 H
ATOM	107	1HB	MET A	10131.583	8.834	-4.305	1.00	0.00 H
ATOM	108	2HB	MET A	10132.348	7.735	-3.166	1.00	0.00 H
ATOM	109	1HG	MET A	10132.417	6.341	-4.907	1.00	0.00 H
ATOM	110	2HG	MET A	10130.730	6.032	-4.504	1.00	0.00 H
ATOM	111	1HE	MET A	10132.930	7.353	-7.762	1.00	0.00 H
ATOM	112	2HE	MET A	10131.728	6.224	-8.385	1.00	0.00 H
ATOM	113	3HE	MET A	10132.664	5.812	-6.948	1.00	0.00 H
ATOM	114	N	PRO A	11129.419	9.313	-1.030	1.00	0.00 N
ATOM	115	CA	PRO A	11129.317	10.509	-0.189	1.00	0.00 C
ATOM	116	C	PRO A	11130.665	10.921	0.403	1.00	0.00 C
ATOM	117	O	PRO A	11131.039	12.093	0.349	1.00	0.00 O
ATOM	118	CB	PRO A	11128.344	10.104	0.923	1.00	0.00 C
ATOM	119	CG	PRO A	11127.610	8.919	0.393	1.00	0.00 C
ATOM	120	CD	PRO A	11128.551	8.225	-0.552	1.00	0.00 C
ATOM	121	HA	PRO A	11128.906	11.341	-0.742	1.00	0.00 H
ATOM	122	1HB	PRO A	11128.896	9.859	1.817	1.00	0.00 H
ATOM	123	2HB	PRO A	11127.669	10.922	1.127	1.00	0.00 H
ATOM	124	1HG	PRO A	11127.346	8.260	1.205	1.00	0.00 H
ATOM	125	2HG	PRO A	11126.723	9.241	-0.132	1.00	0.00 H
ATOM	126	1HD	PRO A	11129.124	7.473	-0.030	1.00	0.00 H
ATOM	127	2HD	PRO A	11128.004	7.781	-1.371	1.00	0.00 H
ATOM	128	N	PRO A	12131.421	9.964	0.975	1.00	0.00 N
ATOM	129	CA	PRO A	12132.731	10.252	1.568	1.00	0.00 C

ATOM	130	C	PRO A	12133.680	10.909	0.572	1.00	0.00 C
ATOM	131	O	PRO A	12134.645	11.568	0.959	1.00	0.00 O
ATOM	132	CB	PRO A	12133.259	8.873	1.974	1.00	0.00 C
ATOM	133	CG	PRO A	12132.046	8.020	2.103	1.00	0.00 C
ATOM	134	CD	PRO A	12131.069	8.536	1.086	1.00	0.00 C
ATOM	135	HA	PRO A	12132.641	10.878	2.443	1.00	0.00 H
ATOM	136	1HB	PRO A	12133.925	8.500	1.210	1.00	0.00 H
ATOM	137	2HB	PRO A	12133.788	8.949	2.912	1.00	0.00 H
ATOM	138	1HG	PRO A	12132.296	6.989	1.894	1.00	0.00 H
ATOM	139	2HG	PRO A	12131.635	8.112	3.098	1.00	0.00 H
ATOM	140	1HD	PRO A	12131.204	8.030	0.141	1.00	0.00 H
ATOM	141	2HD	PRO A	12130.058	8.413	1.440	1.00	0.00 H
ATOM	142	N	GLY A	13133.399	10.723	-0.715	1.00	0.00 N
ATOM	143	CA	GLY A	13134.237	11.303	-1.749	1.00	0.00 C
ATOM	144	C	GLY A	13134.875	10.250	-2.634	1.00	0.00 C
ATOM	145	O	GLY A	13135.166	10.506	-3.802	1.00	0.00 O
ATOM	146	H	GLY A	13132.617	10.187	-0.965	1.00	0.00 H
ATOM	147	1HA	GLY A	13133.634	11.955	-2.362	1.00	0.00 H
ATOM	148	2HA	GLY A	13135.017	11.885	-1.281	1.00	0.00 H
ATOM	149	N	ASN A	14135.094	9.064	-2.076	1.00	0.00 N
ATOM	150	CA	ASN A	14135.701	7.967	-2.821	1.00	0.00 C
ATOM	151	C	ASN A	14134.738	6.790	-2.940	1.00	0.00 C
ATOM	152	O	ASN A	14134.497	6.279	-4.033	1.00	0.00 O
ATOM	153	CB	ASN A	14136.994	7.516	-2.142	1.00	0.00 C
ATOM	154	CG	ASN A	14138.155	8.448	-2.429	1.00	0.00 C
ATOM	155	OD1	ASN A	14138.479	8.716	-3.586	1.00	0.00 O
ATOM	156	ND2	ASN A	14138.789	8.947	-1.375	1.00	0.00 N

ATOM	157	H	ASN A	14134.839	8.921	-1.140	1.00	0.00	H
ATOM	158	HA	ASN A	14135.933	8.328	-3.812	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.840	7.483	-1.073	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.254	6.528	-2.494	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.476	8.690	-0.482	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.542	9.554	-1.532	1.00	0.00	H
ATOM	163	N	SER A	15134.190	6.364	-1.805	1.00	0.00	N
ATOM	164	CA	SER A	15133.254	5.248	-1.782	1.00	0.00	C
ATOM	165	C	SER A	15132.700	5.032	-0.376	1.00	0.00	C
ATOM	166	O	SER A	15131.490	5.082	-0.160	1.00	0.00	O
ATOM	167	CB	SER A	15133.937	3.971	-2.275	1.00	0.00	C
ATOM	168	OG	SER A	15133.013	2.899	-2.362	1.00	0.00	O
ATOM	169	H	SER A	15134.422	6.812	-0.966	1.00	0.00	H
ATOM	170	HA	SER A	15132.436	5.487	-2.445	1.00	0.00	H
ATOM	171	1HB	SER A	15134.358	4.145	-3.254	1.00	0.00	H
ATOM	172	2HB	SER A	15134.723	3.698	-1.588	1.00	0.00	H
ATOM	173	HG	SER A	15133.116	2.455	-3.207	1.00	0.00	H
ATOM	174	N	HIS A	16133.596	4.791	0.576	1.00	0.00	N
ATOM	175	CA	HIS A	16133.197	4.567	1.960	1.00	0.00	C
ATOM	176	C	HIS A	16134.022	5.432	2.909	1.00	0.00	C
ATOM	177	O	HIS A	16133.481	6.066	3.815	1.00	0.00	O
ATOM	178	CB	HIS A	16133.358	3.091	2.327	1.00	0.00	C
ATOM	179	CG	HIS A	16132.209	2.238	1.892	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.498	1.433	2.757	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.644	2.066	0.673	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.548	0.802	2.089	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.615	1.169	0.824	1.00	0.00	N

ATOM	184	H	HIS A	16134.547	4.763	0.342	1.00	0.00	H
ATOM	185	HA	HIS A	16132.158	4.842	2.055	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.253	2.706	1.861	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.452	3.002	3.400	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.666	1.337	3.718	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.948	2.544	-0.247	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.836	0.106	2.509	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.972	0.918	0.128	1.00	0.00	H
ATOM	192	N	GLY A	17135.334	5.452	2.696	1.00	0.00	N
ATOM	193	CA	GLY A	17136.211	6.241	3.540	1.00	0.00	C
ATOM	194	C	GLY A	17137.638	5.732	3.528	1.00	0.00	C
ATOM	195	O	GLY A	17138.205	5.426	4.577	1.00	0.00	O
ATOM	196	H	GLY A	17135.708	4.926	1.958	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.202	7.263	3.194	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.839	6.211	4.553	1.00	0.00	H
ATOM	199	N	LEU A	18138.222	5.640	2.337	1.00	0.00	N
ATOM	200	CA	LEU A	18139.592	5.164	2.192	1.00	0.00	C
ATOM	201	C	LEU A	18140.589	6.244	2.598	1.00	0.00	C
ATOM	202	O	LEU A	18140.918	7.129	1.808	1.00	0.00	O
ATOM	203	CB	LEU A	18139.853	4.729	0.748	1.00	0.00	C
ATOM	204	CG	LEU A	18138.917	3.640	0.221	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.110	3.449	-1.275	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.152	2.333	0.963	1.00	0.00	C
ATOM	207	H	LEU A	18137.719	5.899	1.537	1.00	0.00	H
ATOM	208	HA	LEU A	18139.719	4.312	2.843	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.759	5.596	0.111	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.867	4.364	0.682	1.00	0.00	H

ATOM	211	HG	LEU A	18137.894	3.943	0.389	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.533	4.346	-1.702	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.156	3.245	-1.738	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.780	2.619	-1.448	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.819	1.708	0.388	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.209	1.823	1.100	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.593	2.540	1.926	1.00	0.00	H
ATOM	218	N	GLU A	19141.068	6.165	3.835	1.00	0.00	N
ATOM	219	CA	GLU A	19142.029	7.136	4.347	1.00	0.00	C
ATOM	220	C	GLU A	19143.037	6.466	5.275	1.00	0.00	C
ATOM	221	O	GLU A	19142.923	5.278	5.577	1.00	0.00	O
ATOM	222	CB	GLU A	19141.303	8.260	5.089	1.00	0.00	C
ATOM	223	CG	GLU A	19140.301	7.762	6.117	1.00	0.00	C
ATOM	224	CD	GLU A	19140.305	8.594	7.385	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.932	8.163	8.375	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.680	9.675	7.387	1.00	0.00	O
ATOM	227	H	GLU A	19140.769	5.436	4.418	1.00	0.00	H
ATOM	228	HA	GLU A	19142.557	7.556	3.504	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.034	8.870	5.597	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.776	8.869	4.369	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.313	7.798	5.684	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.544	6.741	6.373	1.00	0.00	H
ATOM	233	N	VAL A	20144.023	7.236	5.725	1.00	0.00	N
ATOM	234	CA	VAL A	20145.050	6.716	6.619	1.00	0.00	C
ATOM	235	C	VAL A	20144.436	6.165	7.900	1.00	0.00	C
ATOM	236	O	VAL A	20143.738	6.876	8.623	1.00	0.00	O
ATOM	237	CB	VAL A	20146.080	7.803	6.983	1.00	0.00	C

ATOM	238	CG1	VAL A	20147.238	7.202	7.764	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.580	8.506	5.730	1.00	0.00	C
ATOM	240	H	VAL A	20144.060	8.176	5.449	1.00	0.00	H
ATOM	241	HA	VAL A	20145.567	5.918	6.106	1.00	0.00	H
ATOM	242	HB	VAL A	20145.593	8.535	7.611	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.403	6.185	7.440	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.005	7.210	8.819	1.00	0.00	H
ATOM	245	3HG1	VAL A	20148.132	7.784	7.589	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.840	7.770	4.984	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.451	9.097	5.972	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.804	9.151	5.346	1.00	0.00	H
ATOM	249	N	GLY A	21144.699	4.891	8.176	1.00	0.00	N
ATOM	250	CA	GLY A	21144.164	4.265	9.371	1.00	0.00	C
ATOM	251	C	GLY A	21143.115	3.216	9.056	1.00	0.00	C
ATOM	252	O	GLY A	21142.936	2.260	9.811	1.00	0.00	O
ATOM	253	H	GLY A	21145.261	4.373	7.564	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.973	3.798	9.913	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.719	5.026	9.995	1.00	0.00	H
ATOM	256	N	SER A	22142.420	3.395	7.938	1.00	0.00	N
ATOM	257	CA	SER A	22141.382	2.457	7.523	1.00	0.00	C
ATOM	258	C	SER A	22141.973	1.329	6.683	1.00	0.00	C
ATOM	259	O	SER A	22143.052	1.470	6.109	1.00	0.00	O
ATOM	260	CB	SER A	22140.295	3.184	6.731	1.00	0.00	C
ATOM	261	OG	SER A	22139.823	4.320	7.435	1.00	0.00	O
ATOM	262	H	SER A	22142.608	4.177	7.377	1.00	0.00	H
ATOM	263	HA	SER A	22140.944	2.034	8.414	1.00	0.00	H
ATOM	264	1HB	SER A	22140.698	3.506	5.783	1.00	0.00	H

ATOM	265	2HB	SER A	22139.467	2.512	6.560	1.00	0.00	H
ATOM	266	HG	SER A	22139.523	4.982	6.809	1.00	0.00	H
ATOM	267	N	LEU A	23141.257	0.211	6.615	1.00	0.00	N
ATOM	268	CA	LEU A	23141.709	-0.941	5.845	1.00	0.00	C
ATOM	269	C	LEU A	23141.254	-0.838	4.392	1.00	0.00	C
ATOM	270	O	LEU A	23140.219	-0.239	4.097	1.00	0.00	O
ATOM	271	CB	LEU A	23141.184	-2.235	6.466	1.00	0.00	C
ATOM	272	CG	LEU A	23141.434	-2.381	7.968	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.439	-3.352	8.583	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.860	-2.841	8.227	1.00	0.00	C
ATOM	275	H	LEU A	23140.404	0.160	7.094	1.00	0.00	H
ATOM	276	HA	LEU A	23142.789	-0.952	5.869	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.119	-2.286	6.292	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.653	-3.068	5.964	1.00	0.00	H
ATOM	279	HG	LEU A	23141.299	-1.420	8.443	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.559	-3.411	7.959	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.160	-3.006	9.568	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.891	-4.330	8.660	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.222	-3.393	7.372	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.881	-3.476	9.100	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.491	-1.979	8.394	1.00	0.00	H
ATOM	286	N	ALAA	24142.031	-1.428	3.490	1.00	0.00	N
ATOM	287	CA	ALAA	24141.706	-1.404	2.069	1.00	0.00	C
ATOM	288	C	ALAA	24142.159	-2.687	1.380	1.00	0.00	C
ATOM	289	O	ALAA	24142.913	-3.476	1.950	1.00	0.00	O
ATOM	290	CB	ALAA	24142.341	-0.192	1.404	1.00	0.00	C
ATOM	291	H	ALAA	24142.842	-1.891	3.787	1.00	0.00	H

ATOM	292	HA	ALA A	24140.634	-1.316	1.975	1.00	0.00	H
ATOM	293	1HB	ALA A	24143.242	0.079	1.935	1.00	0.00	H
ATOM	294	2HB	ALA A	24141.648	0.635	1.424	1.00	0.00	H
ATOM	295	3HB	ALA A	24142.587	-0.432	0.380	1.00	0.00	H
ATOM	296	N	GLU A	25141.693	-2.889	0.152	1.00	0.00	N
ATOM	297	CA	GLU A	25142.049	-4.075	-0.616	1.00	0.00	C
ATOM	298	C	GLU A	25142.445	-3.702	-2.042	1.00	0.00	C
ATOM	299	O	GLU A	25141.940	-2.729	-2.600	1.00	0.00	O
ATOM	300	CB	GLU A	25140.880	-5.062	-0.640	1.00	0.00	C
ATOM	301	CG	GLU A	25141.279	-6.470	-1.053	1.00	0.00	C
ATOM	302	CD	GLU A	25140.213	-7.159	-1.880	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.017	-7.009	-1.552	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.572	-7.849	-2.857	1.00	0.00	O
ATOM	305	H	GLU A	25141.095	-2.223	-0.247	1.00	0.00	H
ATOM	306	HA	GLU A	25142.894	-4.543	-0.131	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.443	-5.109	0.346	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.136	-4.703	-1.337	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.186	-6.417	-1.635	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.457	-7.054	-0.162	1.00	0.00	H
ATOM	311	N	VAL A	26143.350	-4.483	-2.623	1.00	0.00	N
ATOM	312	CA	VAL A	26143.813	-4.233	-3.984	1.00	0.00	C
ATOM	313	C	VAL A	26143.423	-5.375	-4.915	1.00	0.00	C
ATOM	314	O	VAL A	26143.204	-6.502	-4.472	1.00	0.00	O
ATOM	315	CB	VAL A	26145.341	-4.044	-4.032	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.778	-3.585	-5.414	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.791	-3.057	-2.966	1.00	0.00	C
ATOM	318	H	VAL A	26143.716	-5.244	-2.127	1.00	0.00	H

ATOM	319	HA	VAL A	26143.347	-3.321	-4.332	1.00	0.00	H
ATOM	320	HB	VAL A	26145.807	-4.997	-3.830	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.945	-4.447	-6.044	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.694	-3.018	-5.331	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.009	-2.965	-5.849	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.624	-3.482	-1.988	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.227	-2.141	-3.062	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.843	-2.847	-3.092	1.00	0.00	H
ATOM	327	N	LYS A	27143.338	-5.075	-6.206	1.00	0.00	N
ATOM	328	CA	LYS A	27142.973	-6.078	-7.201	1.00	0.00	C
ATOM	329	C	LYS A	27144.218	-6.678	-7.851	1.00	0.00	C
ATOM	330	O	LYS A	27144.425	-6.549	-9.057	1.00	0.00	O
ATOM	331	CB	LYS A	27142.069	-5.461	-8.270	1.00	0.00	C
ATOM	332	CG	LYS A	27141.112	-6.456	-8.904	1.00	0.00	C
ATOM	333	CD	LYS A	27140.187	-5.780	-9.903	1.00	0.00	C
ATOM	334	CE	LYS A	27138.844	-6.486	-9.986	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.778	-7.421	-11.143	1.00	0.00	N
ATOM	336	H	LYS A	27143.523	-4.159	-6.499	1.00	0.00	H
ATOM	337	HA	LYS A	27142.433	-6.864	-6.695	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.488	-4.670	-7.821	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.688	-5.042	-9.050	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.683	-7.215	-9.417	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.516	-6.913	-8.128	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.026	-4.758	-9.594	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.652	-5.794	-10.877	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.688	-7.045	-9.074	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.066	-5.744	-10.089	1.00	0.00	H

ATOM	346	1HZ	LYS A	27139.310	-7.031	-11.948	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.790	-7.564	-11.432	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.188	-8.341	-10.883	1.00	0.00	H
ATOM	349	N	GLU A	28145.043	-7.334	-7.041	1.00	0.00	N
ATOM	350	CA	GLU A	28146.266	-7.954	-7.535	1.00	0.00	C
ATOM	351	C	GLU A	28146.086	-9.461	-7.691	1.00	0.00	C
ATOM	352	O	GLU A	28144.982	-9.982	-7.537	1.00	0.00	O
ATOM	353	CB	GLU A	28147.431	-7.661	-6.586	1.00	0.00	C
ATOM	354	CG	GLU A	28148.684	-7.174	-7.294	1.00	0.00	C
ATOM	355	CD	GLU A	28149.788	-6.792	-6.326	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.789	-5.637	-5.852	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.652	-7.648	-6.044	1.00	0.00	O
ATOM	358	H	GLU A	28144.823	-7.402	-6.088	1.00	0.00	H
ATOM	359	HA	GLU A	28146.487	-7.528	-8.503	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.123	-6.903	-5.881	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.678	-8.564	-6.045	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.048	-7.959	-7.939	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.432	-6.308	-7.890	1.00	0.00	H
ATOM	364	N	ASN A	29147.178	-10.153	-7.996	1.00	0.00	N
ATOM	365	CA	ASN A	29147.139	-11.601	-8.170	1.00	0.00	C
ATOM	366	C	ASN A	29146.933	-12.302	-6.830	1.00	0.00	C
ATOM	367	O	ASN A	29145.965	-13.040	-6.648	1.00	0.00	O
ATOM	368	CB	ASN A	29148.429	-12.092	-8.830	1.00	0.00	C
ATOM	369	CG	ASN A	29148.271	-12.304	-10.322	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.150	-13.436	-10.791	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.269	-11.212	-11.078	1.00	0.00	N
ATOM	372	H	ASN A	29148.029	-9.682	-8.105	1.00	0.00	H

ATOM	373	HA	ASN A	29146.304	-11.833	-8.816	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.208	-11.362	-8.669	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.722	-13.030	-8.380	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.370	-10.343	-10.636	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.169	-11.319	-12.047	1.00	0.00	H
ATOM	378	N	PRO A	30147.846	-12.079	-5.868	1.00	0.00	N
ATOM	379	CA	PRO A	30147.762	-12.691	-4.541	1.00	0.00	C
ATOM	380	C	PRO A	30146.760	-11.975	-3.636	1.00	0.00	C
ATOM	381	O	PRO A	30146.982	-10.833	-3.235	1.00	0.00	O
ATOM	382	CB	PRO A	30149.180	-12.526	-3.999	1.00	0.00	C
ATOM	383	CG	PRO A	30149.681	-11.277	-4.640	1.00	0.00	C
ATOM	384	CD	PRO A	30149.034	-11.211	-6.000	1.00	0.00	C
ATOM	385	HA	PRO A	30147.515	-13.740	-4.601	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.149	-12.435	-2.922	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.778	-13.380	-4.279	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.394	-10.421	-4.046	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.755	-11.323	-4.738	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.744	-10.196	-6.228	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.705	-11.590	-6.754	1.00	0.00	H
ATOM	392	N	PRO A	31145.636	-12.636	-3.300	1.00	0.00	N
ATOM	393	CA	PRO A	31144.604	-12.048	-2.439	1.00	0.00	C
ATOM	394	C	PRO A	31145.149	-11.661	-1.068	1.00	0.00	C
ATOM	395	O	PRO A	31145.121	-12.457	-0.130	1.00	0.00	O
ATOM	396	CB	PRO A	31143.561	-13.163	-2.302	1.00	0.00	C
ATOM	397	CG	PRO A	31143.805	-14.066	-3.462	1.00	0.00	C
ATOM	398	CD	PRO A	31145.281	-14.000	-3.729	1.00	0.00	C
ATOM	399	HA	PRO A	31144.152	-11.181	-2.900	1.00	0.00	H

ATOM	400	1HB	PRO A	31143.703	-13.679	-1.364	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.569	-12.737	-2.337	1.00	0.00	H
ATOM	402	1HG	PRO A	31143.514	-15.075	-3.210	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.253	-13.718	-4.321	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.806	-14.740	-3.141	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.482	-14.138	-4.780	1.00	0.00	H
ATOM	406	N	PHE A	32145.645	-10.432	-0.960	1.00	0.00	N
ATOM	407	CA	PHE A	32146.196	-9.939	0.298	1.00	0.00	C
ATOM	408	C	PHE A	32145.290	-8.877	0.910	1.00	0.00	C
ATOM	409	O	PHE A	32144.361	-8.391	0.263	1.00	0.00	O
ATOM	410	CB	PHE A	32147.596	-9.363	0.074	1.00	0.00	C
ATOM	411	CG	PHE A	32147.655	-8.335	-1.019	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.052	-7.098	-0.857	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.313	-8.606	-2.208	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.105	-6.150	-1.861	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.368	-7.662	-3.216	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.764	-6.432	-3.043	1.00	0.00	C
ATOM	417	H	PHE A	32145.640	-9.844	-1.742	1.00	0.00	H
ATOM	418	HA	PHE A	32146.265	-10.773	0.979	1.00	0.00	H
ATOM	419	1HB	PHE A	32147.936	-8.897	0.986	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.271	-10.166	-0.187	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.537	-6.876	0.065	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.786	-9.568	-2.345	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.631	-5.190	-1.723	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.884	-7.885	-4.138	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.806	-5.692	-3.828	1.00	0.00	H
ATOM	426	N	TYR A	33145.564	-8.520	2.160	1.00	0.00	N

ATOM	427	CA	TYR A	33144.772	-7.516	2.860	1.00	0.00	C
ATOM	428	C	TYR A	33145.668	-6.578	3.662	1.00	0.00	C
ATOM	429	O	TYR A	33146.300	-6.990	4.636	1.00	0.00	O
ATOM	430	CB	TYR A	33143.758	-8.189	3.787	1.00	0.00	C
ATOM	431	CG	TYR A	33142.506	-8.653	3.078	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.622	-7.739	2.518	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.207	-10.006	2.968	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.476	-8.159	1.869	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.063	-10.434	2.321	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.202	-9.507	1.774	1.00	0.00	C
ATOM	437	OH	TYR A	33139.063	-9.929	1.128	1.00	0.00	O
ATOM	438	H	TYR A	33146.317	-8.943	2.624	1.00	0.00	H
ATOM	439	HA	TYR A	33144.240	-6.938	2.119	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.218	-9.051	4.246	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.466	-7.490	4.556	1.00	0.00	H
ATOM	442	HD1	TYR A	33141.840	-6.684	2.594	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.884	-10.729	3.399	1.00	0.00	H
ATOM	444	HE1	TYR A	33139.802	-7.434	1.440	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.850	-11.490	2.247	1.00	0.00	H
ATOM	446	HH	TYR A	33138.936	-9.413	0.329	1.00	0.00	H
ATOM	447	N	GLY A	34145.718	-5.317	3.249	1.00	0.00	N
ATOM	448	CA	GLY A	34146.539	-4.340	3.940	1.00	0.00	C
ATOM	449	C	GLY A	34145.736	-3.149	4.428	1.00	0.00	C
ATOM	450	O	GLY A	34144.535	-3.056	4.177	1.00	0.00	O
ATOM	451	H	GLY A	34145.192	-5.046	2.467	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.008	-4.815	4.789	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.307	-3.990	3.266	1.00	0.00	H

ATOM	454	N	VAL A	35146.402	-2.237	5.128	1.00	0.00	N
ATOM	455	CA	VAL A	35145.745	-1.046	5.652	1.00	0.00	C
ATOM	456	C	VAL A	35146.403	0.224	5.120	1.00	0.00	C
ATOM	457	O	VAL A	35147.618	0.274	4.935	1.00	0.00	O
ATOM	458	CB	VAL A	35145.772	-1.023	7.194	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.205	-0.993	7.705	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.983	0.162	7.727	1.00	0.00	C
ATOM	461	H	VAL A	35147.359	-2.366	5.294	1.00	0.00	H
ATOM	462	HA	VAL A	35144.713	-1.066	5.332	1.00	0.00	H
ATOM	463	HB	VAL A	35145.307	-1.929	7.554	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.873	-1.340	6.930	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.293	-1.635	8.570	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.468	0.018	7.980	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.274	1.057	7.198	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.186	0.285	8.781	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.927	-0.015	7.584	1.00	0.00	H
ATOM	470	N	ILE A	36145.591	1.248	4.876	1.00	0.00	N
ATOM	471	CA	ILE A	36146.096	2.517	4.365	1.00	0.00	C
ATOM	472	C	ILE A	36147.061	3.159	5.356	1.00	0.00	C
ATOM	473	O	ILE A	36146.812	3.173	6.562	1.00	0.00	O
ATOM	474	CB	ILE A	36144.948	3.503	4.069	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.892	2.840	3.183	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.488	4.763	3.406	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.739	3.756	2.826	1.00	0.00	C
ATOM	478	H	ILE A	36144.631	1.147	5.044	1.00	0.00	H
ATOM	479	HA	ILE A	36146.621	2.319	3.442	1.00	0.00	H
ATOM	480	HB	ILE A	36144.495	3.785	5.007	1.00	0.00	H

ATOM	481	1HG1	ILE A	36144.354	2.517	2.262	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.486	1.981	3.697	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.324	4.707	2.341	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.545	4.850	3.604	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.975	5.626	3.805	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.049	3.805	3.654	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.230	3.370	1.955	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.118	4.744	2.613	1.00	0.00	H
ATOM	489	N	ARG A	37148.167	3.687	4.840	1.00	0.00	N
ATOM	490	CA	ARG A	37149.172	4.328	5.679	1.00	0.00	C
ATOM	491	C	ARG A	37149.440	5.757	5.214	1.00	0.00	C
ATOM	492	O	ARG A	37149.255	6.711	5.969	1.00	0.00	O
ATOM	493	CB	ARG A	37150.471	3.521	5.662	1.00	0.00	C
ATOM	494	CG	ARG A	37150.268	2.038	5.926	1.00	0.00	C
ATOM	495	CD	ARG A	37149.643	1.795	7.290	1.00	0.00	C
ATOM	496	NE	ARG A	37150.560	2.125	8.379	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.200	2.184	9.659	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.945	1.938	10.015	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.097	2.492	10.585	1.00	0.00	N
ATOM	500	H	ARG A	37148.310	3.644	3.871	1.00	0.00	H
ATOM	501	HA	ARG A	37148.791	4.358	6.689	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.938	3.632	4.694	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.134	3.912	6.420	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.617	1.633	5.165	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.226	1.541	5.885	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.758	2.408	7.381	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.369	0.754	7.366	1.00	0.00	H

ATOM	508	HE	ARG A	37151.493	2.313	8.144	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.264	1.706	9.321	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.681	1.984	10.979	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.044	2.678	10.322	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.827	2.536	11.548	1.00	0.00	H
ATOM	513	N	TRP A	38149.880	5.895	3.966	1.00	0.00	N
ATOM	514	CA	TRP A	38150.174	7.208	3.403	1.00	0.00	C
ATOM	515	C	TRP A	38149.462	7.403	2.068	1.00	0.00	C
ATOM	516	O	TRP A	38149.486	6.526	1.205	1.00	0.00	O
ATOM	517	CB	TRP A	38151.686	7.384	3.223	1.00	0.00	C
ATOM	518	CG	TRP A	38152.057	8.601	2.427	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.293	9.857	2.909	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.228	8.678	1.007	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.601	10.709	1.874	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.568	10.008	0.698	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.128	7.749	-0.033	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.807	10.431	-0.608	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.366	8.170	-1.328	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.702	9.500	-1.606	1.00	0.00	C
ATOM	527	H	TRP A	38150.009	5.098	3.413	1.00	0.00	H
ATOM	528	HA	TRP A	38149.817	7.954	4.099	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.150	7.468	4.194	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.083	6.518	2.714	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.241	10.128	3.953	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.810	11.662	1.966	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.871	6.719	0.162	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.064	11.453	-0.839	1.00	0.00	H

ATOM	535	HZ3 TRP A	38152.293	7.466	-2.144	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.880	9.785	-2.633	1.00	0.00	H
ATOM	537	N ILE A	39148.840	8.565	1.903	1.00	0.00	N
ATOM	538	CA ILE A	39148.129	8.888	0.673	1.00	0.00	C
ATOM	539	C ILE A	39148.644	10.196	0.083	1.00	0.00	C
ATOM	540	O ILE A	39148.356	11.276	0.600	1.00	0.00	O
ATOM	541	CB ILE A	39146.612	9.006	0.912	1.00	0.00	C
ATOM	542	CG1 ILE A	39146.098	7.788	1.681	1.00	0.00	C
ATOM	543	CG2 ILE A	39145.876	9.153	-0.412	1.00	0.00	C
ATOM	544	CD1 ILE A	39144.744	8.003	2.321	1.00	0.00	C
ATOM	545	H ILE A	39148.864	9.226	2.627	1.00	0.00	H
ATOM	546	HA ILE A	39148.302	8.090	-0.034	1.00	0.00	H
ATOM	547	HB ILE A	39146.429	9.895	1.497	1.00	0.00	H
ATOM	548	1HG1 ILE A	39146.014	6.951	1.004	1.00	0.00	H
ATOM	549	2HG1 ILE A	39146.800	7.541	2.464	1.00	0.00	H
ATOM	550	1HG2 ILE A	39146.353	9.919	-1.005	1.00	0.00	H
ATOM	551	2HG2 ILE A	39144.849	9.430	-0.224	1.00	0.00	H
ATOM	552	3HG2 ILE A	39145.904	8.214	-0.945	1.00	0.00	H
ATOM	553	1HD1 ILE A	39144.547	9.062	2.400	1.00	0.00	H
ATOM	554	2HD1 ILE A	39144.737	7.561	3.306	1.00	0.00	H
ATOM	555	3HD1 ILE A	39143.980	7.540	1.713	1.00	0.00	H
ATOM	556	N GLY A	40149.411	10.094	-0.997	1.00	0.00	N
ATOM	557	CA GLY A	40149.957	11.280	-1.629	1.00	0.00	C
ATOM	558	C GLY A	40150.521	11.002	-3.007	1.00	0.00	C
ATOM	559	O GLY A	40150.356	9.909	-3.548	1.00	0.00	O
ATOM	560	H GLY A	40149.611	9.207	-1.365	1.00	0.00	H
ATOM	561	1HA GLY A	40149.177	12.019	-1.714	1.00	0.00	H

ATOM	562	2HA	GLY A	40150.743	11.674	-1.004	1.00	0.00	H
ATOM	563	N	GLN A	41151.189	12.000	-3.577	1.00	0.00	N
ATOM	564	CA	GLN A	41151.781	11.871	-4.901	1.00	0.00	C
ATOM	565	C	GLN A	41153.254	12.277	-4.876	1.00	0.00	C
ATOM	566	O	GLN A	41153.579	13.436	-4.618	1.00	0.00	O
ATOM	567	CB	GLN A	41151.014	12.736	-5.900	1.00	0.00	C
ATOM	568	CG	GLN A	41149.507	12.549	-5.832	1.00	0.00	C
ATOM	569	CD	GLN A	41148.751	13.854	-5.985	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.708	14.671	-5.065	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.150	14.054	-7.151	1.00	0.00	N
ATOM	572	H	GLN A	41151.283	12.847	-3.095	1.00	0.00	H
ATOM	573	HA	GLN A	41151.705	10.837	-5.201	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.234	13.774	-5.703	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.343	12.491	-6.897	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.204	11.882	-6.625	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.253	12.112	-4.878	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.228	13.358	-7.836	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.654	14.890	-7.279	1.00	0.00	H
ATOM	580	N	PRO A	42154.170	11.328	-5.143	1.00	0.00	N
ATOM	581	CA	PRO A	42155.611	11.603	-5.144	1.00	0.00	C
ATOM	582	C	PRO A	42155.990	12.708	-6.124	1.00	0.00	C
ATOM	583	O	PRO A	42155.242	13.007	-7.055	1.00	0.00	O
ATOM	584	CB	PRO A	42156.234	10.270	-5.576	1.00	0.00	C
ATOM	585	CG	PRO A	42155.205	9.245	-5.250	1.00	0.00	C
ATOM	586	CD	PRO A	42153.880	9.918	-5.459	1.00	0.00	C
ATOM	587	HA	PRO A	42155.964	11.863	-4.157	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.445	10.297	-6.636	1.00	0.00	H

ATOM	589	2HB	PRO A	42157.147	10.100	-5.025	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.304	8.398	-5.913	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.308	8.933	-4.221	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.560	9.812	-6.486	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.139	9.516	-4.785	1.00	0.00	H
ATOM	594	N	PRO A	43157.164	13.333	-5.927	1.00	0.00	N
ATOM	595	CA	PRO A	43157.639	14.410	-6.798	1.00	0.00	C
ATOM	596	C	PRO A	43158.084	13.898	-8.162	1.00	0.00	C
ATOM	597	O	PRO A	43159.259	13.598	-8.370	1.00	0.00	O
ATOM	598	CB	PRO A	43158.831	14.985	-6.032	1.00	0.00	C
ATOM	599	CG	PRO A	43159.327	13.854	-5.201	1.00	0.00	C
ATOM	600	CD	PRO A	43158.115	13.037	-4.839	1.00	0.00	C
ATOM	601	HA	PRO A	43156.888	15.175	-6.929	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.580	15.320	-6.733	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.505	15.812	-5.420	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.024	13.257	-5.770	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.801	14.235	-4.308	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.363	11.985	-4.819	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.720	13.350	-3.885	1.00	0.00	H
ATOM	608	N	GLY A	44157.137	13.799	-9.088	1.00	0.00	N
ATOM	609	CA	GLY A	44157.455	13.321	-10.420	1.00	0.00	C
ATOM	610	C	GLY A	44156.242	12.780	-11.148	1.00	0.00	C
ATOM	611	O	GLY A	44155.976	13.154	-12.290	1.00	0.00	O
ATOM	612	H	GLY A	44156.217	14.052	-8.866	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.870	14.136	-10.993	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.193	12.538	-10.344	1.00	0.00	H
ATOM	615	N	LEU A	45155.501	11.897	-10.485	1.00	0.00	N

ATOM	616	CA	LEU A	45154.309	11.306 -11.079	1.00	0.00	C
ATOM	617	C	LEU A	45153.078	11.600 -10.230	1.00	0.00	C
ATOM	618	O	LEU A	45152.951	11.097 -9.114	1.00	0.00	O
ATOM	619	CB	LEU A	45154.485	9.794 -11.233	1.00	0.00	C
ATOM	620	CG	LEU A	45155.017	9.076 -9.993	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.677	7.593 -10.044	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.521	9.282 -9.864	1.00	0.00	C
ATOM	623	H	LEU A	45155.762	11.639 -9.575	1.00	0.00	H
ATOM	624	HA	LEU A	45154.171	11.745 -12.056	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.527	9.365 -11.490	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.170	9.614 -12.048	1.00	0.00	H
ATOM	627	HG	LEU A	45154.546	9.495 -9.114	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.921	7.371 -9.306	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.564	7.011 -9.837	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.305	7.341 -11.027	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.910	9.685 -10.787	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.998	8.336 -9.654	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.721	9.971 -9.058	1.00	0.00	H
ATOM	634	N	ASN A	46152.171	12.413 -10.762	1.00	0.00	N
ATOM	635	CA	ASN A	46150.957	12.758 -10.038	1.00	0.00	C
ATOM	636	C	ASN A	46149.995	11.576 -10.017	1.00	0.00	C
ATOM	637	O	ASN A	46149.389	11.234 -11.033	1.00	0.00	O
ATOM	638	CB	ASN A	46150.283	13.971 -10.685	1.00	0.00	C
ATOM	639	CG	ASN A	46149.129	14.503 -9.860	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.303	15.398 -9.032	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.939	13.956 -10.083	1.00	0.00	N
ATOM	642	H	ASN A	46152.322	12.784 -11.656	1.00	0.00	H

ATOM	643	HA	ASN A	46151.230	13.006	-9.024	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.012	14.760	-10.801	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.907	13.689	-11.658	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.875	13.248	-10.758	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.175	14.280	-9.563	1.00	0.00	H
ATOM	648	N	GLU A	47149.861	10.955	-8.851	1.00	0.00	N
ATOM	649	CA	GLU A	47148.975	9.809	-8.688	1.00	0.00	C
ATOM	650	C	GLU A	47148.762	9.496	-7.211	1.00	0.00	C
ATOM	651	O	GLU A	47149.716	9.219	-6.485	1.00	0.00	O
ATOM	652	CB	GLU A	47149.547	8.583	-9.406	1.00	0.00	C
ATOM	653	CG	GLU A	47151.060	8.458	-9.295	1.00	0.00	C
ATOM	654	CD	GLU A	47151.638	7.490	-10.309	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.922	6.334	-9.932	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.808	7.889	-11.480	1.00	0.00	O
ATOM	657	H	GLU A	47150.372	11.276	-8.079	1.00	0.00	H
ATOM	658	HA	GLU A	47148.023	10.062	-9.131	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.103	7.694	-8.983	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.288	8.642	-10.453	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.501	9.430	-9.457	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.309	8.110	-8.304	1.00	0.00	H
ATOM	663	N	VAL A	48147.509	9.531	-6.773	1.00	0.00	N
ATOM	664	CA	VAL A	48147.186	9.241	-5.382	1.00	0.00	C
ATOM	665	C	VAL A	48147.515	7.792	-5.045	1.00	0.00	C
ATOM	666	O	VAL A	48146.778	6.877	-5.410	1.00	0.00	O
ATOM	667	CB	VAL A	48145.699	9.505	-5.081	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.426	9.387	-3.590	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.284	10.873	-5.601	1.00	0.00	C

ATOM	670	H	VAL A	48146.787	9.752	-7.398	1.00	0.00	H
ATOM	671	HA	VAL A	48147.782	9.891	-4.757	1.00	0.00	H
ATOM	672	HB	VAL A	48145.111	8.756	-5.592	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.434	9.758	-3.376	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.154	9.968	-3.043	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.495	8.351	-3.292	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.342	11.156	-5.156	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.178	10.833	-6.675	1.00	0.00	H
ATOM	678	3HG2	VAL A	48146.038	11.600	-5.341	1.00	0.00	H
ATOM	679	N	LEU A	49148.629	7.589	-4.349	1.00	0.00	N
ATOM	680	CA	LEU A	49149.057	6.249	-3.967	1.00	0.00	C
ATOM	681	C	LEU A	49148.869	6.026	-2.472	1.00	0.00	C
ATOM	682	O	LEU A	49149.509	6.684	-1.651	1.00	0.00	O
ATOM	683	CB	LEU A	49150.523	6.031	-4.347	1.00	0.00	C
ATOM	684	CG	LEU A	49150.819	6.092	-5.846	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.276	6.456	-6.088	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.482	4.765	-6.509	1.00	0.00	C
ATOM	687	H	LEU A	49149.177	8.359	-4.087	1.00	0.00	H
ATOM	688	HA	LEU A	49148.446	5.541	-4.504	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.117	6.786	-3.852	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.827	5.062	-3.982	1.00	0.00	H
ATOM	691	HG	LEU A	49150.205	6.858	-6.297	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.360	7.015	-7.007	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.865	5.554	-6.159	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.637	7.058	-5.267	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.448	4.896	-7.581	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.520	4.421	-6.158	1.00	0.00	H

ATOM	697	3HD2	LEU A	49151.238	4.035	-6.260	1.00	0.00	H
ATOM	698	N	ALA A	50147.987	5.096	-2.125	1.00	0.00	N
ATOM	699	CA	ALA A	50147.717	4.789	-0.728	1.00	0.00	C
ATOM	700	C	ALA A	50148.598	3.644	-0.237	1.00	0.00	C
ATOM	701	O	ALA A	50148.479	2.512	-0.706	1.00	0.00	O
ATOM	702	CB	ALA A	50146.247	4.448	-0.537	1.00	0.00	C
ATOM	703	H	ALA A	50147.508	4.605	-2.825	1.00	0.00	H
ATOM	704	HA	ALA A	50147.937	5.673	-0.148	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.886	4.911	0.370	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.132	3.376	-0.464	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.680	4.814	-1.379	1.00	0.00	H
ATOM	708	N	GLY A	51149.481	3.945	0.709	1.00	0.00	N
ATOM	709	CA	GLY A	51150.367	2.930	1.246	1.00	0.00	C
ATOM	710	C	GLY A	51149.616	1.834	1.976	1.00	0.00	C
ATOM	711	O	GLY A	51148.873	2.103	2.919	1.00	0.00	O
ATOM	712	H	GLY A	51149.530	4.865	1.045	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.925	2.489	0.434	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.057	3.397	1.933	1.00	0.00	H
ATOM	715	N	LEU A	52149.809	0.594	1.540	1.00	0.00	N
ATOM	716	CA	LEU A	52149.144	-0.547	2.159	1.00	0.00	C
ATOM	717	C	LEU A	52150.156	-1.473	2.823	1.00	0.00	C
ATOM	718	O	LEU A	52151.152	-1.862	2.211	1.00	0.00	O
ATOM	719	CB	LEU A	52148.334	-1.320	1.116	1.00	0.00	C
ATOM	720	CG	LEU A	52147.158	-0.552	0.509	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.691	-1.219	-0.775	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.015	-0.455	1.508	1.00	0.00	C
ATOM	723	H	LEU A	52150.414	0.442	0.783	1.00	0.00	H

ATOM	724	HA	LEU A	52148.472	-0.168	2.914	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.000	-1.608	0.316	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.948	-2.214	1.581	1.00	0.00	H
ATOM	727	HG	LEU A	52147.479	0.452	0.266	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.196	-0.491	-1.400	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.003	-2.017	-0.536	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.543	-1.625	-1.300	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.635	-1.444	1.717	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.226	0.155	1.093	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.373	-0.006	2.423	1.00	0.00	H
ATOM	734	N	GLU A	53149.896	-1.824	4.078	1.00	0.00	N
ATOM	735	CA	GLU A	53150.785	-2.704	4.826	1.00	0.00	C
ATOM	736	C	GLU A	53150.228	-4.123	4.878	1.00	0.00	C
ATOM	737	O	GLU A	53149.272	-4.398	5.604	1.00	0.00	O
ATOM	738	CB	GLU A	53150.991	-2.171	6.245	1.00	0.00	C
ATOM	739	CG	GLU A	53151.929	-3.022	7.085	1.00	0.00	C
ATOM	740	CD	GLU A	53151.460	-3.163	8.521	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.529	-3.960	8.765	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.022	-2.475	9.399	1.00	0.00	O
ATOM	743	H	GLU A	53149.087	-1.481	4.512	1.00	0.00	H
ATOM	744	HA	GLU A	53151.738	-2.724	4.317	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.400	-1.173	6.186	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.034	-2.128	6.743	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.992	-4.006	6.646	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.908	-2.565	7.085	1.00	0.00	H
ATOM	749	N	LEU A	54150.831	-5.020	4.106	1.00	0.00	N
ATOM	750	CA	LEU A	54150.395	-6.411	4.066	1.00	0.00	C

ATOM	751	C	LEU A	54150.670	-7.106	5.395	1.00	0.00	C
ATOM	752	O	LEU A	54151.717	-6.900	6.009	1.00	0.00	O
ATOM	753	CB	LEU A	54151.101	-7.155	2.930	1.00	0.00	C
ATOM	754	CG	LEU A	54151.009	-6.482	1.560	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.142	-6.950	0.659	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.661	-6.766	0.916	1.00	0.00	C
ATOM	757	H	LEU A	54151.588	-4.741	3.550	1.00	0.00	H
ATOM	758	HA	LEU A	54149.331	-6.419	3.882	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.144	-7.259	3.190	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.668	-8.141	2.850	1.00	0.00	H
ATOM	761	HG	LEU A	54151.103	-5.412	1.685	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.417	-7.961	0.921	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.995	-6.300	0.787	1.00	0.00	H
ATOM	764	3HD1	LEU A	54151.818	-6.920	-0.371	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.379	-5.934	0.288	1.00	0.00	H
ATOM	766	2HD2	LEU A	54148.916	-6.904	1.686	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.729	-7.662	0.316	1.00	0.00	H
ATOM	768	N	GLU A	55149.724	-7.930	5.832	1.00	0.00	N
ATOM	769	CA	GLU A	55149.864	-8.657	7.089	1.00	0.00	C
ATOM	770	C	GLU A	55150.994	-9.678	7.005	1.00	0.00	C
ATOM	771	O	GLU A	55151.789	-9.818	7.934	1.00	0.00	O
ATOM	772	CB	GLU A	55148.553	-9.359	7.446	1.00	0.00	C
ATOM	773	CG	GLU A	55147.334	-8.455	7.347	1.00	0.00	C
ATOM	774	CD	GLU A	55146.084	-9.100	7.915	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.229	-8.364	8.452	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.960	-10.339	7.820	1.00	0.00	O
ATOM	777	H	GLU A	55148.912	-8.054	5.297	1.00	0.00	H

ATOM	778	HA	GLU A	55150.100	-7.940	7.861	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.411	-10.194	6.777	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.619	-9.728	8.459	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.531	-7.545	7.893	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.160	-8.221	6.307	1.00	0.00	H
ATOM	783	N	ASP A	56151.058	-10.392	5.886	1.00	0.00	N
ATOM	784	CA	ASP A	56152.090	-11.401	5.680	1.00	0.00	C
ATOM	785	C	ASP A	56153.367	-10.771	5.130	1.00	0.00	C
ATOM	786	O	ASP A	56153.327	-10.001	4.171	1.00	0.00	O
ATOM	787	CB	ASP A	56151.590	-12.485	4.723	1.00	0.00	C
ATOM	788	CG	ASP A	56150.920	-13.634	5.451	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.503	-14.134	6.435	1.00	0.00	O
ATOM	790	OD2	ASP A	56149.812	-14.033	5.037	1.00	0.00	O
ATOM	791	H	ASP A	56150.396	-10.235	5.180	1.00	0.00	H
ATOM	792	HA	ASP A	56152.308	-11.851	6.636	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.875	-12.051	4.039	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.426	-12.876	4.163	1.00	0.00	H
ATOM	795	N	GLU A	57154.497	-11.105	5.745	1.00	0.00	N
ATOM	796	CA	GLU A	57155.785	-10.572	5.317	1.00	0.00	C
ATOM	797	C	GLU A	57156.231	-11.213	4.006	1.00	0.00	C
ATOM	798	O	GLU A	57156.596	-12.388	3.971	1.00	0.00	O
ATOM	799	CB	GLU A	57156.843	-10.807	6.398	1.00	0.00	C
ATOM	800	CG	GLU A	57156.548	-10.088	7.703	1.00	0.00	C
ATOM	801	CD	GLU A	57157.377	-10.615	8.859	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.607	-10.399	8.853	1.00	0.00	O
ATOM	803	OE2	GLU A	57156.796	-11.244	9.768	1.00	0.00	O
ATOM	804	H	GLU A	57154.464	-11.724	6.504	1.00	0.00	H

ATOM	805	HA	GLU A	57155.670	-9.510	5.163	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.905	-11.866	6.600	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.798	-10.463	6.029	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.762	-9.037	7.578	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.503	-10.216	7.942	1.00	0.00	H
ATOM	810	N	CYS A	58156.196	-10.433	2.931	1.00	0.00	N
ATOM	811	CA	CYS A	58156.596	-10.925	1.617	1.00	0.00	C
ATOM	812	C	CYS A	58158.001	-10.450	1.263	1.00	0.00	C
ATOM	813	O	CYS A	58158.351	-9.292	1.492	1.00	0.00	O
ATOM	814	CB	CYS A	58155.603	-10.459	0.552	1.00	0.00	C
ATOM	815	SG	CYS A	58154.230	-11.601	0.272	1.00	0.00	S
ATOM	816	H	CYS A	58155.895	-9.505	3.023	1.00	0.00	H
ATOM	817	HA	CYS A	58156.592	-12.004	1.652	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.184	-9.509	0.851	1.00	0.00	H
ATOM	819	2HB	CYS A	58156.125	-10.335	-0.387	1.00	0.00	H
ATOM	820	HG	CYS A	58153.489	-11.095	-0.071	1.00	0.00	H
ATOM	821	N	ALAA	59158.801	-11.350	0.702	1.00	0.00	N
ATOM	822	CA	ALAA	59160.167	-11.022	0.315	1.00	0.00	C
ATOM	823	C	ALAA	59160.187	-10.082	-0.886	1.00	0.00	C
ATOM	824	O	ALAA	59159.903	-10.491	-2.012	1.00	0.00	O
ATOM	825	CB	ALAA	59160.947	-12.292	0.005	1.00	0.00	C
ATOM	826	H	ALAA	59158.463	-12.256	0.544	1.00	0.00	H
ATOM	827	HA	ALAA	59160.643	-10.532	1.152	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.958	-12.193	0.372	1.00	0.00	H
ATOM	829	2HB	ALAA	59160.965	-12.452	-1.062	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.471	-13.132	0.488	1.00	0.00	H
ATOM	831	N	GLY A	60160.524	-8.821	-0.637	1.00	0.00	N

ATOM	832	CA	GLY A	60160.574	-7.842	-1.708	1.00	0.00 C
ATOM	833	C	GLY A	60159.929	-6.525	-1.320	1.00	0.00 C
ATOM	834	O	GLY A	60160.307	-5.469	-1.827	1.00	0.00 O
ATOM	835	H	GLY A	60160.739	-8.552	0.281	1.00	0.00 H
ATOM	836	1HA	GLY A	60161.607	-7.662	-1.967	1.00	0.00 H
ATOM	837	2HA	GLY A	60160.061	-8.241	-2.570	1.00	0.00 H
ATOM	838	N	CYS A	61158.954	-6.589	-0.420	1.00	0.00 N
ATOM	839	CA	CYS A	61158.255	-5.393	0.035	1.00	0.00 C
ATOM	840	C	CYS A	61159.192	-4.483	0.823	1.00	0.00 C
ATOM	841	O	CYS A	61160.303	-4.876	1.177	1.00	0.00 O
ATOM	842	CB	CYS A	61157.052	-5.777	0.899	1.00	0.00 C
ATOM	843	SG	CYS A	61155.952	-6.992	0.134	1.00	0.00 S
ATOM	844	H	CYS A	61158.697	-7.461	-0.053	1.00	0.00 H
ATOM	845	HA	CYS A	61157.905	-4.861	-0.838	1.00	0.00 H
ATOM	846	1HB	CYS A	61157.405	-6.194	1.830	1.00	0.00 H
ATOM	847	2HB	CYS A	61156.470	-4.890	1.106	1.00	0.00 H
ATOM	848	HG	CYS A	61156.418	-7.831	0.095	1.00	0.00 H
ATOM	849	N	THR A	62158.734	-3.265	1.096	1.00	0.00 N
ATOM	850	CA	THR A	62159.531	-2.299	1.842	1.00	0.00 C
ATOM	851	C	THR A	62159.054	-2.201	3.287	1.00	0.00 C
ATOM	852	O	THR A	62158.129	-2.903	3.695	1.00	0.00 O
ATOM	853	CB	THR A	62159.461	-0.924	1.175	1.00	0.00 C
ATOM	854	OG1	THR A	62158.186	-0.714	0.595	1.00	0.00 O
ATOM	855	CG2	THR A	62160.497	-0.732	0.089	1.00	0.00 C
ATOM	856	H	THR A	62157.840	-3.010	0.786	1.00	0.00 H
ATOM	857	HA	THR A	62160.556	-2.640	1.836	1.00	0.00 H
ATOM	858	HB	THR A	62159.622	-0.163	1.925	1.00	0.00 H

ATOM	859	HG1 THR A	62157.729	-0.016	1.070	1.00	0.00 H
ATOM	860	1HG2 THR A	62161.485	-0.763	0.525	1.00	0.00 H
ATOM	861	2HG2 THR A	62160.344	0.224	-0.389	1.00	0.00 H
ATOM	862	3HG2 THR A	62160.402	-1.520	-0.643	1.00	0.00 H
ATOM	863	N ASP A	63159.692	-1.326	4.058	1.00	0.00 N
ATOM	864	CA ASP A	63159.332	-1.135	5.458	1.00	0.00 C
ATOM	865	C ASP A	63158.683	0.228	5.672	1.00	0.00 C
ATOM	866	O ASP A	63158.810	0.827	6.741	1.00	0.00 O
ATOM	867	CB ASP A	63160.569	-1.269	6.347	1.00	0.00 C
ATOM	868	CG ASP A	63161.735	-0.442	5.843	1.00	0.00 C
ATOM	869	OD1 ASP A	63162.877	-0.947	5.871	1.00	0.00 O
ATOM	870	OD2 ASP A	63161.506	0.712	5.422	1.00	0.00 O
ATOM	871	H ASP A	63160.421	-0.794	3.675	1.00	0.00 H
ATOM	872	HA ASP A	63158.622	-1.904	5.725	1.00	0.00 H
ATOM	873	1HB ASP A	63160.325	-0.942	7.346	1.00	0.00 H
ATOM	874	2HB ASP A	63160.873	-2.306	6.376	1.00	0.00 H
ATOM	875	N GLY A	64157.987	0.715	4.650	1.00	0.00 N
ATOM	876	CA GLY A	64157.329	2.004	4.747	1.00	0.00 C
ATOM	877	C GLY A	64158.059	3.087	3.979	1.00	0.00 C
ATOM	878	O GLY A	64158.181	4.218	4.451	1.00	0.00 O
ATOM	879	H GLY A	64157.919	0.194	3.823	1.00	0.00 H
ATOM	880	1HA GLY A	64156.326	1.914	4.357	1.00	0.00 H
ATOM	881	2HA GLY A	64157.274	2.291	5.788	1.00	0.00 H
ATOM	882	N THR A	65158.544	2.743	2.791	1.00	0.00 N
ATOM	883	CA THR A	65159.266	3.694	1.954	1.00	0.00 C
ATOM	884	C THR A	65158.921	3.495	0.482	1.00	0.00 C
ATOM	885	O THR A	65158.995	2.381	-0.038	1.00	0.00 O

ATOM	886	CB	THR A	65160.775	3.546	2.161	1.00	0.00	C
ATOM	887	OG1	THR A	65161.186	2.213	1.916	1.00	0.00	O
ATOM	888	CG2	THR A	65161.226	3.917	3.557	1.00	0.00	C
ATOM	889	H	THR A	65158.415	1.826	2.469	1.00	0.00	H
ATOM	890	HA	THR A	65158.967	4.689	2.250	1.00	0.00	H
ATOM	891	HB	THR A	65161.288	4.194	1.466	1.00	0.00	H
ATOM	892	HG1	THR A	65160.799	1.905	1.093	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.492	4.565	4.014	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.175	4.430	3.505	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.333	3.021	4.151	1.00	0.00	H
ATOM	896	N	PHE A	66158.545	4.581	-0.185	1.00	0.00	N
ATOM	897	CA	PHE A	66158.189	4.526	-1.598	1.00	0.00	C
ATOM	898	C	PHE A	66159.244	5.221	-2.452	1.00	0.00	C
ATOM	899	O	PHE A	66159.348	6.447	-2.453	1.00	0.00	O
ATOM	900	CB	PHE A	66156.822	5.175	-1.826	1.00	0.00	C
ATOM	901	CG	PHE A	66156.219	4.847	-3.162	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.098	3.531	-3.579	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.771	5.856	-4.001	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.543	3.227	-4.808	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.215	5.557	-5.231	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.101	4.241	-5.635	1.00	0.00	C
ATOM	907	H	PHE A	66158.506	5.440	0.285	1.00	0.00	H
ATOM	908	HA	PHE A	66158.136	3.486	-1.886	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.139	4.837	-1.062	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.926	6.248	-1.761	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.443	2.737	-2.934	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.860	6.885	-3.686	1.00	0.00	H

ATOM	913	HE1 PHE A	66155.456	2.198	-5.121	1.00	0.00	H
ATOM	914	HE2 PHE A	66154.871	6.352	-5.875	1.00	0.00	H
ATOM	915	HZ PHE A	66154.666	4.007	-6.595	1.00	0.00	H
ATOM	916	N ARG A	67160.023	4.428	-3.181	1.00	0.00	N
ATOM	917	CA ARG A	67161.070	4.967	-4.042	1.00	0.00	C
ATOM	918	C ARG A	67162.093	5.754	-3.228	1.00	0.00	C
ATOM	919	O ARG A	67162.571	6.803	-3.660	1.00	0.00	O
ATOM	920	CB ARG A	67160.460	5.864	-5.121	1.00	0.00	C
ATOM	921	CG ARG A	67159.253	5.250	-5.812	1.00	0.00	C
ATOM	922	CD ARG A	67158.944	5.953	-7.123	1.00	0.00	C
ATOM	923	NE ARG A	67157.578	5.696	-7.573	1.00	0.00	N
ATOM	924	CZ ARG A	67157.193	4.569	-8.167	1.00	0.00	C
ATOM	925	NH1 ARG A	67158.066	3.594	-8.385	1.00	0.00	N
ATOM	926	NH2 ARG A	67155.931	4.416	-8.545	1.00	0.00	N
ATOM	927	H ARG A	67159.891	3.458	-3.140	1.00	0.00	H
ATOM	928	HA ARG A	67161.568	4.136	-4.517	1.00	0.00	H
ATOM	929	1HB ARG A	67160.153	6.796	-4.668	1.00	0.00	H
ATOM	930	2HB ARG A	67161.210	6.068	-5.869	1.00	0.00	H
ATOM	931	1HG ARG A	67159.457	4.208	-6.013	1.00	0.00	H
ATOM	932	2HG ARG A	67158.397	5.331	-5.158	1.00	0.00	H
ATOM	933	1HD ARG A	67159.073	7.017	-6.985	1.00	0.00	H
ATOM	934	2HD ARG A	67159.634	5.603	-7.876	1.00	0.00	H
ATOM	935	HE ARG A	67156.913	6.401	-7.425	1.00	0.00	H
ATOM	936	1HH1 ARG A	67159.019	3.702	-8.102	1.00	0.00	H
ATOM	937	2HH1 ARG A	67157.771	2.749	-8.832	1.00	0.00	H
ATOM	938	1HH2 ARG A	67155.268	5.148	-8.383	1.00	0.00	H
ATOM	939	2HH2 ARG A	67155.642	3.570	-8.992	1.00	0.00	H

ATOM	940	N	GLY A	68162.423	5.240	-2.048	1.00	0.00	N
ATOM	941	CA	GLY A	68163.387	5.909	-1.192	1.00	0.00	C
ATOM	942	C	GLY A	68162.806	7.129	-0.505	1.00	0.00	C
ATOM	943	O	GLY A	68163.530	8.071	-0.184	1.00	0.00	O
ATOM	944	H	GLY A	68162.009	4.402	-1.755	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.726	5.212	-0.440	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.232	6.214	-1.791	1.00	0.00	H
ATOM	947	N	THR A	69161.497	7.111	-0.279	1.00	0.00	N
ATOM	948	CA	THR A	69160.818	8.224	0.375	1.00	0.00	C
ATOM	949	C	THR A	69159.927	7.727	1.509	1.00	0.00	C
ATOM	950	O	THR A	69158.778	7.344	1.285	1.00	0.00	O
ATOM	951	CB	THR A	69159.985	9.007	-0.640	1.00	0.00	C
ATOM	952	OG1	THR A	69160.757	9.328	-1.783	1.00	0.00	O
ATOM	953	CG2	THR A	69159.427	10.300	-0.085	1.00	0.00	C
ATOM	954	H	THR A	69160.974	6.330	-0.558	1.00	0.00	H
ATOM	955	HA	THR A	69161.575	8.876	0.786	1.00	0.00	H
ATOM	956	HB	THR A	69159.152	8.396	-0.954	1.00	0.00	H
ATOM	957	HG1	THR A	69161.481	9.905	-1.529	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.229	11.013	0.043	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.958	10.110	0.869	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.696	10.701	-0.772	1.00	0.00	H
ATOM	961	N	ARG A	70160.463	7.737	2.725	1.00	0.00	N
ATOM	962	CA	ARG A	70159.714	7.288	3.893	1.00	0.00	C
ATOM	963	C	ARG A	70158.456	8.127	4.089	1.00	0.00	C
ATOM	964	O	ARG A	70158.505	9.357	4.042	1.00	0.00	O
ATOM	965	CB	ARG A	70160.591	7.360	5.145	1.00	0.00	C
ATOM	966	CG	ARG A	70159.921	6.798	6.388	1.00	0.00	C

ATOM	967	CD	ARG A	70160.262	7.616	7.624	1.00	0.00	C
ATOM	968	NE	ARG A	70161.583	7.285	8.153	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.985	7.587	9.384	1.00	0.00	C
ATOM	970	NH1	ARG A	70161.174	8.226	10.218	1.00	0.00	N
ATOM	971	NH2	ARG A	70163.204	7.249	9.785	1.00	0.00	N
ATOM	972	H	ARG A	70161.383	8.055	2.839	1.00	0.00	H
ATOM	973	HA	ARG A	70159.425	6.262	3.725	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.498	6.802	4.968	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.844	8.393	5.333	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.851	6.810	6.246	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.254	5.782	6.537	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.242	8.664	7.362	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.520	7.421	8.385	1.00	0.00	H
ATOM	980	HE	ARG A	70162.202	6.813	7.558	1.00	0.00	H
ATOM	981	1HH1	ARG A	70160.255	8.484	9.923	1.00	0.00	H
ATOM	982	2HH1	ARG A	70161.483	8.450	11.143	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.819	6.766	9.161	1.00	0.00	H
ATOM	984	2HH2	ARG A	70163.506	7.476	10.710	1.00	0.00	H
ATOM	985	N	TYR A	71157.331	7.456	4.312	1.00	0.00	N
ATOM	986	CA	TYR A	71156.060	8.139	4.517	1.00	0.00	C
ATOM	987	C	TYR A	71155.495	7.835	5.900	1.00	0.00	C
ATOM	988	O	TYR A	71154.967	8.719	6.574	1.00	0.00	O
ATOM	989	CB	TYR A	71155.055	7.724	3.441	1.00	0.00	C
ATOM	990	CG	TYR A	71155.279	8.403	2.108	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.301	7.670	0.928	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.468	9.777	2.029	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.505	8.285	-0.292	1.00	0.00	C

ATOM	994	CE2 TYR A	71155.673	10.400	0.813	1.00	0.00	C
ATOM	995	CZ TYR A	71155.691	9.650	-0.344	1.00	0.00	C
ATOM	996	OH TYR A	71155.894	10.268	-1.557	1.00	0.00	O
ATOM	997	H TYR A	71157.357	6.477	4.339	1.00	0.00	H
ATOM	998	HA TYR A	71156.238	9.202	4.440	1.00	0.00	H
ATOM	999	1HB TYR A	71155.124	6.659	3.285	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.058	7.970	3.776	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.154	6.600	0.972	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.455	10.361	2.938	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.518	7.697	-1.198	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.819	11.470	0.773	1.00	0.00	H
ATOM	1005	HH TYR A	71155.302	9.892	-2.211	1.00	0.00	H
ATOM	1006	N PHE A	72155.611	6.579	6.318	1.00	0.00	N
ATOM	1007	CA PHE A	72155.112	6.157	7.621	1.00	0.00	C
ATOM	1008	C PHE A	72156.066	5.160	8.272	1.00	0.00	C
ATOM	1009	O PHE A	72157.112	4.833	7.714	1.00	0.00	O
ATOM	1010	CB PHE A	72153.722	5.534	7.482	1.00	0.00	C
ATOM	1011	CG PHE A	72153.649	4.455	6.439	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.791	3.123	6.790	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.438	4.775	5.107	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.725	2.128	5.833	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.372	3.785	4.145	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.514	2.459	4.509	1.00	0.00	C
ATOM	1017	H PHE A	72156.042	5.919	5.734	1.00	0.00	H
ATOM	1018	HA PHE A	72155.043	7.033	8.248	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.433	5.101	8.427	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.015	6.305	7.214	1.00	0.00	H

ATOM	1021	HD1 PHE A	72153.956	2.862	7.826	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.327	5.810	4.822	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.837	1.093	6.120	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.206	4.046	3.111	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.462	1.684	3.759	1.00	0.00	H
ATOM	1026	N THR A	73155.696	4.680	9.455	1.00	0.00	N
ATOM	1027	CA THR A	73156.517	3.720	10.183	1.00	0.00	C
ATOM	1028	C THR A	73155.799	2.383	10.319	1.00	0.00	C
ATOM	1029	O THR A	73154.786	2.279	11.012	1.00	0.00	O
ATOM	1030	CB THR A	73156.871	4.267	11.568	1.00	0.00	C
ATOM	1031	OG1 THR A	73157.291	5.617	11.483	1.00	0.00	O
ATOM	1032	CG2 THR A	73157.970	3.486	12.256	1.00	0.00	C
ATOM	1033	H THR A	73154.849	4.980	9.849	1.00	0.00	H
ATOM	1034	HA THR A	73157.428	3.571	9.622	1.00	0.00	H
ATOM	1035	HB THR A	73155.992	4.223	12.195	1.00	0.00	H
ATOM	1036	HG1 THR A	73157.505	5.942	12.360	1.00	0.00	H
ATOM	1037	1HG2 THR A	73157.585	2.531	12.580	1.00	0.00	H
ATOM	1038	2HG2 THR A	73158.323	4.041	13.112	1.00	0.00	H
ATOM	1039	3HG2 THR A	73158.786	3.330	11.567	1.00	0.00	H
ATOM	1040	N CYS A	74156.329	1.361	9.655	1.00	0.00	N
ATOM	1041	CA CYS A	74155.737	0.029	9.702	1.00	0.00	C
ATOM	1042	C CYS A	74156.817	-1.040	9.840	1.00	0.00	C
ATOM	1043	O CYS A	74158.004	-0.730	9.941	1.00	0.00	O
ATOM	1044	CB CYS A	74154.907	-0.228	8.444	1.00	0.00	C
ATOM	1045	SG CYS A	74153.174	0.266	8.590	1.00	0.00	S
ATOM	1046	H CYS A	74157.138	1.507	9.120	1.00	0.00	H
ATOM	1047	HA CYS A	74155.091	-0.015	10.565	1.00	0.00	H

ATOM	1048	1HB	CYS A	74155.336	0.323	7.619	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.931	-1.283	8.216	1.00	0.00	H
ATOM	1050	HG	CYS A	74152.822	0.378	7.704	1.00	0.00	H
ATOM	1051	N	ALAA	75156.395	-2.300	9.846	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.325	-3.416	9.972	1.00	0.00	C
ATOM	1053	C	ALAA	75158.145	-3.594	8.699	1.00	0.00	C
ATOM	1054	O	ALAA	75158.032	-2.806	7.760	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.570	-4.697	10.298	1.00	0.00	C
ATOM	1056	H	ALAA	75155.436	-2.485	9.762	1.00	0.00	H
ATOM	1057	HA	ALAA	75157.993	-3.201	10.792	1.00	0.00	H
ATOM	1058	1HB	ALAA	75157.083	-5.539	9.858	1.00	0.00	H
ATOM	1059	2HB	ALAA	75155.569	-4.637	9.898	1.00	0.00	H
ATOM	1060	3HB	ALAA	75156.524	-4.823	11.370	1.00	0.00	H
ATOM	1061	N	LEU A	76158.971	-4.635	8.674	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.811	-4.917	7.515	1.00	0.00	C
ATOM	1063	C	LEU A	76159.123	-5.895	6.570	1.00	0.00	C
ATOM	1064	O	LEU A	76158.480	-6.849	7.006	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.160	-5.485	7.963	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.133	-4.460	8.547	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.958	-5.082	9.663	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.038	-3.905	7.458	1.00	0.00	C
ATOM	1069	H	LEU A	76159.017	-5.228	9.452	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.978	-3.986	6.994	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.975	-6.244	8.710	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.631	-5.950	7.111	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.571	-3.638	8.968	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.035	-6.147	9.503	1.00	0.00	H

ATOM	1075	2HD1	LEU A	76162.480	-4.894	10.612	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.947	-4.647	9.665	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.015	-3.701	7.871	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.614	-2.992	7.068	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.128	-4.628	6.661	1.00	0.00	H
ATOM	1080	N	LYS A	77159.263	-5.652	5.270	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.655	-6.512	4.261	1.00	0.00	C
ATOM	1082	C	LYS A	77157.137	-6.531	4.405	1.00	0.00	C
ATOM	1083	O	LYS A	77156.502	-7.576	4.257	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.210	-7.934	4.373	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.709	-8.021	4.143	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.055	-7.890	2.668	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.333	-7.091	2.465	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.972	-7.390	1.154	1.00	0.00	N
ATOM	1089	H	LYS A	77159.788	-4.875	4.983	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.908	-6.113	3.291	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.996	-8.315	5.361	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.718	-8.558	3.642	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.195	-7.226	4.688	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.064	-8.976	4.502	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.189	-8.876	2.250	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.243	-7.389	2.161	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.095	-6.038	2.507	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.024	-7.335	3.258	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.327	-7.144	0.376	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.202	-8.403	1.090	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.849	-6.841	1.050	1.00	0.00	H

ATOM	1102	N	LYS A	78156.560	-5.370	4.693	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.116	-5.253	4.857	1.00	0.00	C
ATOM	1104	C	LYS A	78154.630	-3.873	4.421	1.00	0.00	C
ATOM	1105	O	LYS A	78153.775	-3.271	5.071	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.723	-5.509	6.313	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.187	-6.857	6.841	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.862	-7.020	8.316	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.595	-7.837	8.520	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.784	-7.328	9.660	1.00	0.00	N
ATOM	1111	H	LYS A	78157.120	-4.572	4.799	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.650	-5.999	4.230	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.154	-4.737	6.932	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.648	-5.465	6.397	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.694	-7.640	6.284	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.256	-6.937	6.706	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.684	-7.521	8.803	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.723	-6.042	8.754	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.003	-7.789	7.619	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.872	-8.862	8.715	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.943	-6.307	9.784	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.051	-7.818	10.537	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78151.773	-7.491	9.480	1.00	0.00	H
ATOM	1124	N	ALA A	79155.181	-3.379	3.318	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.803	-2.071	2.796	1.00	0.00	C
ATOM	1126	C	ALA A	79154.667	-2.103	1.279	1.00	0.00	C
ATOM	1127	O	ALA A	79155.662	-2.180	0.557	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.824	-1.022	3.215	1.00	0.00	C

ATOM	1129	H	ALA A	79155.857	-3.906	2.844	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.850	-1.803	3.228	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.952	-1.053	4.287	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.475	-0.043	2.921	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.768	-1.228	2.733	1.00	0.00	H
ATOM	1134	N	LEU A	80153.429	-2.045	0.799	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.162	-2.068	-0.635	1.00	0.00	C
ATOM	1136	C	LEU A	80152.294	-0.883	-1.044	1.00	0.00	C
ATOM	1137	O	LEU A	80151.115	-0.813	-0.696	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.475	-3.378	-1.024	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.077	-3.487	-2.498	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.312	-3.525	-3.383	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.216	-4.721	-2.725	1.00	0.00	C
ATOM	1142	H	LEU A	80152.678	-1.984	1.424	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.108	-2.001	-1.149	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.144	-4.194	-0.792	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.583	-3.485	-0.425	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.496	-2.618	-2.771	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80154.114	-2.982	-2.904	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.086	-3.068	-4.335	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.613	-4.550	-3.536	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.834	-5.604	-2.676	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.752	-4.660	-3.698	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.452	-4.773	-1.964	1.00	0.00	H
ATOM	1153	N	PHE A	81152.886	0.049	-1.786	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.167	1.232	-2.243	1.00	0.00	C
ATOM	1155	C	PHE A	81151.408	0.942	-3.534	1.00	0.00	C

ATOM	1156	O	PHE A	81151.925	0.285	-4.437	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.139	2.393	-2.461	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.718	2.937	-1.186	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.880	2.404	-0.654	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.100	3.984	-0.521	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.415	2.903	0.518	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.630	4.488	0.653	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.790	3.946	1.172	1.00	0.00	C
ATOM	1164	H	PHE A	81153.828	-0.063	-2.032	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.458	1.506	-1.477	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.957	2.058	-3.080	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.621	3.198	-2.962	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.371	1.588	-1.165	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.193	4.409	-0.926	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.321	2.477	0.923	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.139	5.304	1.161	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.206	4.337	2.088	1.00	0.00	H
ATOM	1173	N	VAL A	82150.176	1.437	-3.615	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.347	1.232	-4.795	1.00	0.00	C
ATOM	1175	C	VAL A	82148.458	2.442	-5.060	1.00	0.00	C
ATOM	1176	O	VAL A	82148.317	3.319	-4.209	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.459	-0.019	-4.649	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.301	-1.283	-4.728	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.677	0.030	-3.346	1.00	0.00	C
ATOM	1180	H	VAL A	82149.818	1.954	-2.863	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.001	1.086	-5.642	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.754	-0.032	-5.468	1.00	0.00	H

ATOM	1183	1HG1	VAL A	82149.619	-1.442	-5.747	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.713	-2.128	-4.398	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82150.168	-1.179	-4.092	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82148.342	-0.166	-2.518	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.896	-0.717	-3.366	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.235	1.008	-3.228	1.00	0.00	H
ATOM	1189	N	LYS A	83147.860	2.481	-6.246	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.984	3.584	-6.625	1.00	0.00	C
ATOM	1191	C	LYS A	83145.701	3.570	-5.803	1.00	0.00	C
ATOM	1192	O	LYS A	83144.952	2.594	-5.815	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.650	3.507	-8.115	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.877	3.518	-9.012	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.699	2.598	-10.210	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.182	3.252	-11.495	1.00	0.00	C
ATOM	1197	NZ	LYS A	83149.098	2.362	-12.260	1.00	0.00	N
ATOM	1198	H	LYS A	83148.011	1.751	-6.882	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.509	4.506	-6.432	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.101	2.596	-8.302	1.00	0.00	H
ATOM	1201	2HB	LYS A	83146.031	4.351	-8.378	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.044	4.525	-9.365	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.733	3.188	-8.440	1.00	0.00	H
ATOM	1204	1HD	LYS A	83148.264	1.694	-10.044	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.651	2.357	-10.311	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.325	3.484	-12.111	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.704	4.165	-11.247	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.594	1.502	-12.560	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.906	2.086	-11.667	1.00	0.00	H

ATOM	1210	3HZ	LYS A	83149.455	2.855	-13.104	1.00	0.00	H
ATOM	1211	N	LEU A	84145.454	4.663	-5.090	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.263	4.786	-4.260	1.00	0.00	C
ATOM	1213	C	LEU A	84142.997	4.654	-5.102	1.00	0.00	C
ATOM	1214	O	LEU A	84141.964	4.191	-4.618	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.267	6.130	-3.530	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.022	6.415	-2.687	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.083	5.655	-1.372	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.881	7.909	-2.436	1.00	0.00	C
ATOM	1219	H	LEU A	84146.091	5.408	-5.124	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.283	3.990	-3.531	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.131	6.159	-2.881	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.364	6.913	-4.265	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.147	6.081	-3.226	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.280	5.984	-0.729	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.030	5.843	-0.889	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.980	4.597	-1.562	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.983	8.094	-1.866	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.822	8.429	-3.380	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.738	8.263	-1.883	1.00	0.00	H
ATOM	1230	N	LYS A	85143.085	5.064	-6.363	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.947	4.991	-7.271	1.00	0.00	C
ATOM	1232	C	LYS A	85141.531	3.543	-7.511	1.00	0.00	C
ATOM	1233	O	LYS A	85140.366	3.259	-7.790	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.288	5.663	-8.603	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.572	5.147	-9.232	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.681	5.556	-10.693	1.00	0.00	C

ATOM	1237	CE	LYS A	85144.838	4.854	-11.383	1.00	0.00	C
ATOM	1238	NZ	LYS A	85146.048	5.720	-11.459	1.00	0.00	N
ATOM	1239	H	LYS A	85143.936	5.424	-6.691	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.123	5.519	-6.814	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.479	5.492	-9.298	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.394	6.725	-8.441	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.414	5.552	-8.692	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.585	4.069	-9.168	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.763	5.298	-11.199	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.834	6.625	-10.746	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.082	3.960	-10.830	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.534	4.587	-12.385	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.772	6.705	-11.648	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85146.673	5.395	-12.222	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.569	5.684	-10.560	1.00	0.00	H
ATOM	1252	N	SER A	86142.491	2.629	-7.401	1.00	0.00	N
ATOM	1253	CA	SER A	86142.223	1.211	-7.606	1.00	0.00	C
ATOM	1254	C	SER A	86142.207	0.464	-6.276	1.00	0.00	C
ATOM	1255	O	SER A	86142.569	-0.710	-6.208	1.00	0.00	O
ATOM	1256	CB	SER A	86143.274	0.600	-8.535	1.00	0.00	C
ATOM	1257	OG	SER A	86143.390	1.346	-9.734	1.00	0.00	O
ATOM	1258	H	SER A	86143.402	2.916	-7.178	1.00	0.00	H
ATOM	1259	HA	SER A	86141.251	1.121	-8.067	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.232	0.594	-8.036	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.988	-0.412	-8.780	1.00	0.00	H
ATOM	1262	HG	SER A	86143.240	0.769	-10.486	1.00	0.00	H
ATOM	1263	N	CYS A	87141.785	1.153	-5.221	1.00	0.00	N

ATOM	1264	CA	CYS A	87141.722	0.555	-3.893	1.00	0.00	C
ATOM	1265	C	CYS A	87140.276	0.316	-3.471	1.00	0.00	C
ATOM	1266	O	CYS A	87139.400	1.145	-3.719	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.421	1.455	-2.872	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.221	1.289	-2.851	1.00	0.00	S
ATOM	1269	H	CYS A	87141.509	2.086	-5.339	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.235	-0.395	-3.932	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.190	2.486	-3.095	1.00	0.00	H
ATOM	1272	2HB	CYS A	87142.056	1.217	-1.884	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.431	0.366	-2.690	1.00	0.00	H
ATOM	1274	N	ARG A	88140.033	-0.824	-2.832	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.693	-1.175	-2.374	1.00	0.00	C
ATOM	1276	C	ARG A	88138.606	-1.111	-0.850	1.00	0.00	C
ATOM	1277	O	ARG A	88139.568	-1.430	-0.152	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.315	-2.576	-2.865	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.224	-2.575	-3.923	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.190	-3.658	-3.660	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.005	-3.499	-4.500	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.945	-3.874	-5.776	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.999	-4.428	-6.363	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.828	-3.694	-6.467	1.00	0.00	N
ATOM	1285	H	ARG A	88140.773	-1.445	-2.663	1.00	0.00	H
ATOM	1286	HA	ARG A	88138.004	-0.458	-2.793	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.193	-3.047	-3.284	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.972	-3.160	-2.024	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.733	-1.614	-3.919	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.675	-2.747	-4.890	1.00	0.00	H

ATOM	1291	1HD	ARG A	88136.636	-4.620	-3.862	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.894	-3.611	-2.622	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.212	-3.092	-4.092	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.844	-4.567	-5.847	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.947	-4.708	-7.321	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.031	-3.277	-6.031	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.783	-3.975	-7.426	1.00	0.00	H
ATOM	1298	N	PRO A	89137.446	-0.698	-0.311	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.243	-0.598	1.132	1.00	0.00	C
ATOM	1300	C	PRO A	89137.003	-1.956	1.779	1.00	0.00	C
ATOM	1301	O	PRO A	89135.933	-2.547	1.629	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.998	0.280	1.252	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.237	0.053	-0.007	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.244	-0.301	-1.068	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.077	-0.112	1.616	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.427	-0.025	2.113	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.291	1.314	1.355	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.540	-0.760	0.131	1.00	0.00	H
ATOM	1309	2HG	PRO A	89134.708	0.955	-0.280	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.880	-1.123	-1.662	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.449	0.555	-1.694	1.00	0.00	H
ATOM	1312	N	ASP A	90138.005	-2.448	2.500	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.904	-3.738	3.170	1.00	0.00	C
ATOM	1314	C	ASP A	90136.864	-3.694	4.284	1.00	0.00	C
ATOM	1315	O	ASP A	90136.879	-2.797	5.127	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.264	-4.144	3.744	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.447	-5.649	3.787	1.00	0.00	C

ATOM	1318	OD1	ASP A	90138.703	-6.359	3.077	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.334	-6.118	4.530	1.00	0.00	O
ATOM	1320	H	ASP A	90138.833	-1.929	2.582	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.600	-4.469	2.438	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.046	-3.723	3.130	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.353	-3.759	4.749	1.00	0.00	H
ATOM	1324	N	SER A	91135.959	-4.668	4.280	1.00	0.00	N
ATOM	1325	CA	SER A	91134.910	-4.741	5.290	1.00	0.00	C
ATOM	1326	C	SER A	91135.155	-5.905	6.245	1.00	0.00	C
ATOM	1327	O	SER A	91134.212	-6.499	6.769	1.00	0.00	O
ATOM	1328	CB	SER A	91133.542	-4.891	4.625	1.00	0.00	C
ATOM	1329	OG	SER A	91132.523	-4.303	5.413	1.00	0.00	O
ATOM	1330	H	SER A	91136.000	-5.354	3.582	1.00	0.00	H
ATOM	1331	HA	SER A	91134.928	-3.820	5.853	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.558	-4.407	3.660	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.320	-5.940	4.497	1.00	0.00	H
ATOM	1334	HG	SER A	91132.485	-3.359	5.235	1.00	0.00	H
ATOM	1335	N	ARG A	92136.425	-6.227	6.465	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.792	-7.322	7.357	1.00	0.00	C
ATOM	1337	C	ARG A	92136.427	-6.995	8.800	1.00	0.00	C
ATOM	1338	O	ARG A	92136.114	-7.886	9.589	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.291	-7.612	7.249	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.675	-8.368	5.988	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.939	-9.187	6.192	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.696	-10.375	7.006	1.00	0.00	N
ATOM	1343	CZ	ARG A	92140.512	-11.425	7.047	1.00	0.00	C
ATOM	1344	NH1	ARG A	92141.626	-11.438	6.323	1.00	0.00	N

ATOM	1345	NH2	ARG A	92140.217	-12.465	7.815	1.00	0.00	N
ATOM	1346	H	ARG A	92137.132	-5.717	6.018	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.242	-8.197	7.048	1.00	0.00	H
ATOM	1348	1HB	ARG A	92138.829	-6.676	7.260	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.593	-8.201	8.102	1.00	0.00	H
ATOM	1350	1HG	ARG A	92137.868	-9.032	5.718	1.00	0.00	H
ATOM	1351	2HG	ARG A	92138.841	-7.658	5.191	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.314	-9.494	5.227	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.676	-8.569	6.684	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.881	-10.392	7.551	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.854	-10.657	5.742	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92142.235	-12.231	6.359	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92139.380	-12.460	8.362	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92140.831	-13.254	7.846	1.00	0.00	H
ATOM	1359	N	PHE A	93136.471	-5.710	9.141	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.145	-5.267	10.491	1.00	0.00	C
ATOM	1361	C	PHE A	93135.088	-4.167	10.466	1.00	0.00	C
ATOM	1362	O	PHE A	93135.035	-3.324	11.363	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.403	-4.764	11.203	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.417	-5.841	11.463	1.00	0.00	C
ATOM	1365	CD1	PHE A	93138.403	-6.550	12.655	1.00	0.00	C
ATOM	1366	CD2	PHE A	93139.383	-6.145	10.518	1.00	0.00	C
ATOM	1367	CE1	PHE A	93139.336	-7.542	12.897	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.317	-7.135	10.755	1.00	0.00	C
ATOM	1369	CZ	PHE A	93140.293	-7.834	11.947	1.00	0.00	C
ATOM	1370	H	PHE A	93136.729	-5.045	8.469	1.00	0.00	H
ATOM	1371	HA	PHE A	93135.752	-6.114	11.033	1.00	0.00	H

ATOM	1372	1HB	PHE A	93137.873	-4.006	10.594	1.00	0.00	H
ATOM	1373	2HB	PHE A	93137.122	-4.333	12.153	1.00	0.00	H
ATOM	1374	HD1	PHE A	93137.654	-6.322	13.398	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.403	-5.599	9.587	1.00	0.00	H
ATOM	1376	HE1	PHE A	93139.315	-8.086	13.830	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.066	-7.362	10.010	1.00	0.00	H
ATOM	1378	HZ	PHE A	93141.023	-8.608	12.134	1.00	0.00	H
ATOM	1379	N	ALA A	94134.248	-4.179	9.436	1.00	0.00	N
ATOM	1380	CA	ALA A	94133.194	-3.181	9.298	1.00	0.00	C
ATOM	1381	C	ALA A	94131.841	-3.752	9.711	1.00	0.00	C
ATOM	1382	O	ALA A	94131.381	-4.748	9.154	1.00	0.00	O
ATOM	1383	CB	ALA A	94133.139	-2.667	7.869	1.00	0.00	C
ATOM	1384	H	ALA A	94134.339	-4.875	8.752	1.00	0.00	H
ATOM	1385	HA	ALA A	94133.436	-2.351	9.946	1.00	0.00	H
ATOM	1386	1HB	ALA A	94134.082	-2.860	7.379	1.00	0.00	H
ATOM	1387	2HB	ALA A	94132.950	-1.603	7.877	1.00	0.00	H
ATOM	1388	3HB	ALA A	94132.346	-3.169	7.335	1.00	0.00	H
ATOM	1389	N	SER A	95131.210	-3.113	10.691	1.00	0.00	N
ATOM	1390	CA	SER A	95129.909	-3.557	11.178	1.00	0.00	C
ATOM	1391	C	SER A	95128.787	-2.722	10.569	1.00	0.00	C
ATOM	1392	O	SER A	95128.757	-1.500	10.719	1.00	0.00	O
ATOM	1393	CB	SER A	95129.855	-3.471	12.704	1.00	0.00	C
ATOM	1394	OG	SER A	95130.341	-2.221	13.162	1.00	0.00	O
ATOM	1395	H	SER A	95131.628	-2.324	11.096	1.00	0.00	H
ATOM	1396	HA	SER A	95129.778	-4.587	10.879	1.00	0.00	H
ATOM	1397	1HB	SER A	95128.834	-3.588	13.033	1.00	0.00	H
ATOM	1398	2HB	SER A	95130.462	-4.257	13.129	1.00	0.00	H

ATOM	1399	HG	SER A	95131.063	-2.362	13.777	1.00	0.00	H
ATOM	1400	N	LEU A	96127.865	-3.390	9.882	1.00	0.00	N
ATOM	1401	CA	LEU A	96126.741	-2.709	9.251	1.00	0.00	C
ATOM	1402	C	LEU A	96125.532	-2.677	10.181	1.00	0.00	C
ATOM	1403	O	LEU A	96124.737	-1.737	10.150	1.00	0.00	O
ATOM	1404	CB	LEU A	96126.371	-3.401	7.938	1.00	0.00	C
ATOM	1405	CG	LEU A	96125.417	-2.614	7.038	1.00	0.00	C
ATOM	1406	CD1	LEU A	96125.715	-2.891	5.572	1.00	0.00	C
ATOM	1407	CD2	LEU A	96123.972	-2.958	7.364	1.00	0.00	C
ATOM	1408	H	LEU A	96127.944	-4.363	9.798	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.044	-1.695	9.040	1.00	0.00	H
ATOM	1410	1HB	LEU A	96127.280	-3.590	7.387	1.00	0.00	H
ATOM	1411	2HB	LEU A	96125.908	-4.349	8.173	1.00	0.00	H
ATOM	1412	HG	LEU A	96125.558	-1.557	7.212	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96125.101	-3.710	5.230	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96126.757	-3.151	5.460	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96125.498	-2.009	4.987	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96123.911	-3.334	8.374	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96123.617	-3.712	6.678	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96123.361	-2.072	7.272	1.00	0.00	H
ATOM	1419	N	GLN A	97125.400	-3.710	11.007	1.00	0.00	N
ATOM	1420	CA	GLN A	97124.288	-3.800	11.946	1.00	0.00	C
ATOM	1421	C	GLN A	97124.353	-2.675	12.977	1.00	0.00	C
ATOM	1422	O	GLN A	97125.436	-2.211	13.334	1.00	0.00	O
ATOM	1423	CB	GLN A	97124.298	-5.156	12.652	1.00	0.00	C
ATOM	1424	CG	GLN A	97123.726	-6.285	11.811	1.00	0.00	C
ATOM	1425	CD	GLN A	97124.413	-7.612	12.070	1.00	0.00	C

ATOM	1426	OE1	GLN A	97123.776	-8.584	12.477	1.00	0.00	O
ATOM	1427	NE2	GLN A	97125.719	-7.657	11.836	1.00	0.00	N
ATOM	1428	H	GLN A	97126.066	-4.429	10.985	1.00	0.00	H
ATOM	1429	HA	GLN A	97123.371	-3.703	11.384	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.316	-5.409	12.909	1.00	0.00	H
ATOM	1431	2HB	GLN A	97123.715	-5.082	13.559	1.00	0.00	H
ATOM	1432	1HG	GLN A	97122.676	-6.391	12.039	1.00	0.00	H
ATOM	1433	2HG	GLN A	97123.843	-6.033	10.767	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.160	-6.845	11.513	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97126.188	-8.503	11.995	1.00	0.00	H
ATOM	1436	N	PRO A	98123.189	-2.221	13.472	1.00	0.00	N
ATOM	1437	CA	PRO A	98123.119	-1.146	14.467	1.00	0.00	C
ATOM	1438	C	PRO A	98123.998	-1.425	15.682	1.00	0.00	C
ATOM	1439	O	PRO A	98124.079	-2.557	16.155	1.00	0.00	O
ATOM	1440	CB	PRO A	98121.643	-1.126	14.869	1.00	0.00	C
ATOM	1441	CG	PRO A	98120.923	-1.699	13.698	1.00	0.00	C
ATOM	1442	CD	PRO A	98121.851	-2.719	13.101	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.392	-0.193	14.037	1.00	0.00	H
ATOM	1444	1HB	PRO A	98121.500	-1.727	15.755	1.00	0.00	H
ATOM	1445	2HB	PRO A	98121.334	-0.110	15.062	1.00	0.00	H
ATOM	1446	1HG	PRO A	98120.007	-2.170	14.026	1.00	0.00	H
ATOM	1447	2HG	PRO A	98120.710	-0.921	12.981	1.00	0.00	H
ATOM	1448	1HD	PRO A	98121.669	-3.693	13.531	1.00	0.00	H
ATOM	1449	2HD	PRO A	98121.736	-2.752	12.028	1.00	0.00	H
ATOM	1450	N	SER A	99124.656	-0.383	16.181	1.00	0.00	N
ATOM	1451	CA	SER A	99125.530	-0.515	17.341	1.00	0.00	C
ATOM	1452	C	SER A	99125.438	0.716	18.234	1.00	0.00	C

ATOM	1453	O	SER A	99125.514	1.849	17.757	1.00	0.00	O
ATOM	1454	CB	SER A	99126.977	-0.729	16.894	1.00	0.00	C
ATOM	1455	OG	SER A	99127.645	-1.643	17.748	1.00	0.00	O
ATOM	1456	H	SER A	99124.551	0.495	15.760	1.00	0.00	H
ATOM	1457	HA	SER A	99125.205	-1.378	17.903	1.00	0.00	H
ATOM	1458	1HB	SER A	99126.986	-1.125	15.888	1.00	0.00	H
ATOM	1459	2HB	SER A	99127.501	0.214	16.914	1.00	0.00	H
ATOM	1460	HG	SER A	99127.146	-2.461	17.795	1.00	0.00	H
ATOM	1461	N	GLY A	100125.276	0.488	19.534	1.00	0.00	N
ATOM	1462	CA	GLY A	100125.177	1.590	20.473	1.00	0.00	C
ATOM	1463	C	GLY A	100126.449	1.782	21.279	1.00	0.00	C
ATOM	1464	O	GLY A	100127.322	0.915	21.279	1.00	0.00	O
ATOM	1465	H	GLY A	100125.223	-0.435	19.857	1.00	0.00	H
ATOM	1466	1HA	GLY A	100124.971	2.498	19.926	1.00	0.00	H
ATOM	1467	2HA	GLY A	100124.359	1.397	21.152	1.00	0.00	H
ATOM	1468	N	PRO A	101126.583	2.919	21.983	1.00	0.00	N
ATOM	1469	CA	PRO A	101127.768	3.210	22.797	1.00	0.00	C
ATOM	1470	C	PRO A	101128.098	2.079	23.763	1.00	0.00	C
ATOM	1471	O	PRO A	101129.261	1.853	24.098	1.00	0.00	O
ATOM	1472	CB	PRO A	101127.372	4.472	23.565	1.00	0.00	C
ATOM	1473	CG	PRO A	101126.339	5.126	22.714	1.00	0.00	C
ATOM	1474	CD	PRO A	101125.590	4.010	22.041	1.00	0.00	C
ATOM	1475	HA	PRO A	101128.630	3.417	22.178	1.00	0.00	H
ATOM	1476	1HB	PRO A	101126.974	4.199	24.531	1.00	0.00	H
ATOM	1477	2HB	PRO A	101128.237	5.107	23.691	1.00	0.00	H
ATOM	1478	1HG	PRO A	101125.670	5.708	23.331	1.00	0.00	H
ATOM	1479	2HG	PRO A	101126.814	5.756	21.977	1.00	0.00	H

ATOM	1480	1HD	PRO A 101124.733	3.720	22.631	1.00	0.00	H
ATOM	1481	2HD	PRO A 101125.285	4.304	21.048	1.00	0.00	H
ATOM	1482	N	SER A 102127.066	1.370	24.210	1.00	0.00	N
ATOM	1483	CA	SER A 102127.246	0.261	25.141	1.00	0.00	C
ATOM	1484	C	SER A 102127.156	-1.077	24.416	1.00	0.00	C
ATOM	1485	O	SER A 102126.907	-1.127	23.210	1.00	0.00	O
ATOM	1486	CB	SER A 102126.198	0.324	26.252	1.00	0.00	C
ATOM	1487	OG	SER A 102126.340	-0.761	27.151	1.00	0.00	O
ATOM	1488	H	SER A 102126.162	1.598	23.908	1.00	0.00	H
ATOM	1489	HA	SER A 102128.230	0.353	25.579	1.00	0.00	H
ATOM	1490	1HB	SER A 102126.313	1.247	26.801	1.00	0.00	H
ATOM	1491	2HB	SER A 102125.211	0.286	25.815	1.00	0.00	H
ATOM	1492	HG	SER A 102125.972	-0.521	28.004	1.00	0.00	H
ATOM	1493	N	SER A 103127.358	-2.162	25.157	1.00	0.00	N
ATOM	1494	CA	SER A 103127.298	-3.502	24.584	1.00	0.00	C
ATOM	1495	C	SER A 103127.003	-4.541	25.661	1.00	0.00	C
ATOM	1496	O	SER A 103127.271	-4.320	26.842	1.00	0.00	O
ATOM	1497	CB	SER A 103128.615	-3.838	23.882	1.00	0.00	C
ATOM	1498	OG	SER A 103128.608	-5.168	23.394	1.00	0.00	O
ATOM	1499	H	SER A 103127.552	-2.058	26.112	1.00	0.00	H
ATOM	1500	HA	SER A 103126.499	-3.516	23.858	1.00	0.00	H
ATOM	1501	1HB	SER A 103128.758	-3.165	23.050	1.00	0.00	H
ATOM	1502	2HB	SER A 103129.431	-3.727	24.581	1.00	0.00	H
ATOM	1503	HG	SER A 103127.773	-5.344	22.953	1.00	0.00	H
ATOM	1504	N	GLY A 104126.448	-5.675	25.246	1.00	0.00	N
ATOM	1505	CA	GLY A 104126.126	-6.731	26.186	1.00	0.00	C
ATOM	1506	C	GLY A 104126.008	-8.087	25.519	1.00	0.00	C

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ATOM 1507 O GLY A 104 124.930 -8.384 24.963 1.00 0.00 O
ATOM 1508 OXT GLY A 104 126.994 -8.853 25.551 1.00 0.00 O
ATOM 1509 H GLY A 104 126.257 -5.796 24.292 1.00 0.00 H
ATOM 1510 1HA GLY A 104 126.901 -6.778 26.937 1.00 0.00 H
ATOM 1511 2HA GLY A 104 125.188 -6.496 26.667 1.00 0.00 H
TER 1512 GLY A 104
ENDMDL

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Three-Dimensional Structure Coordinate Table 13

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ATOM 1 N GLY A 1109.776 8.327 -20.550 1.00 0.00 N
ATOM 2 CA GLY A 1110.429 7.092 -20.038 1.00 0.00 C
ATOM 3 C GLY A 1110.587 7.101 -18.531 1.00 0.00 C
ATOM 4 O GLY A 1110.302 8.105 -17.876 1.00 0.00 O
ATOM 5 1H GLY A 1110.222 8.624 -21.442 1.00 0.00 H
ATOM 6 2H GLY A 1109.870 9.095 -19.856 1.00 0.00 H
ATOM 7 3H GLY A 1108.765 8.152 -20.722 1.00 0.00 H
ATOM 8 1HA GLY A 1109.832 6.237 -20.321 1.00 0.00 H
ATOM 9 2HA GLY A 1111.406 6.999 -20.491 1.00 0.00 H
ATOM 10 N SER A 2111.043 5.982 -17.978 1.00 0.00 N
ATOM 11 CA SER A 2111.239 5.865 -16.538 1.00 0.00 C
ATOM 12 C SER A 2112.551 6.516 -16.111 1.00 0.00 C
ATOM 13 O SER A 2113.614 5.897 -16.184 1.00 0.00 O
ATOM 14 CB SER A 2111.225 4.394 -16.117 1.00 0.00 C
ATOM 15 OG SER A 2110.002 3.772 -16.475 1.00 0.00 O
ATOM 16 H SER A 2111.252 5.217 -18.552 1.00 0.00 H
ATOM 17 HA SER A 2110.422 6.377 -16.050 1.00 0.00 H
ATOM 18 1HB SER A 2112.035 3.874 -16.606 1.00 0.00 H

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ATOM19	2HB	SER A	2111.348	4.328 -15.046	1.00	0.00	H
ATOM20	HG	SER A	2109.293	4.121 -15.929	1.00	0.00	H
ATOM21	N	SER A	3112.470	7.766 -15.669	1.00	0.00	N
ATOM22	CA	SER A	3113.651	8.500 -15.231	1.00	0.00	C
ATOM23	C	SER A	3114.121	8.012 -13.865	1.00	0.00	C
ATOM24	O	SER A	3113.652	8.486 -12.831	1.00	0.00	O
ATOM25	CB	SER A	3113.354	9.999 -15.175	1.00	0.00	C
ATOM26	OG	SER A	3112.378	10.289 -14.190	1.00	0.00	O
ATOM27	H	SER A	3111.595	8.205 -15.635	1.00	0.00	H
ATOM28	HA	SER A	3114.435	8.325 -15.952	1.00	0.00	H
ATOM29	1HB	SER A	3114.260	10.536 -14.934	1.00	0.00	H
ATOM30	2HB	SER A	3112.986	10.327 -16.137	1.00	0.00	H
ATOM31	HG	SER A	3111.624	9.705 -14.304	1.00	0.00	H
ATOM32	N	GLY A	4115.050	7.061 -13.868	1.00	0.00	N
ATOM33	CA	GLY A	4115.567	6.524 -12.624	1.00	0.00	C
ATOM34	C	GLY A	4116.956	7.039 -12.303	1.00	0.00	C
ATOM35	O	GLY A	4117.941	6.312 -12.437	1.00	0.00	O
ATOM36	H	GLY A	4115.386	6.721 -14.724	1.00	0.00	H
ATOM37	1HA	GLY A	4114.899	6.799 -11.821	1.00	0.00	H
ATOM38	2HA	GLY A	4115.601	5.447 -12.696	1.00	0.00	H
ATOM39	N	SER A	5117.036	8.296 -11.879	1.00	0.00	N
ATOM40	CA	SER A	5118.315	8.907 -11.538	1.00	0.00	C
ATOM41	C	SER A	5118.862	8.335 -10.234	1.00	0.00	C
ATOM42	O	SER A	5118.354	8.631 -9.153	1.00	0.00	O
ATOM43	CB	SER A	5118.163	10.425 -11.416	1.00	0.00	C
ATOM44	OG	SER A	5118.434	11.066 -12.651	1.00	0.00	O
ATOM45	H	SER A	5116.215	8.824 -11.793	1.00	0.00	H

ATOM46	HA	SER A	5119.010	8.687	-12.334	1.00	0.00	H
ATOM47	1HB	SER A	5117.152	10.660	-11.118	1.00	0.00	H
ATOM48	2HB	SER A	5118.852	10.796	-10.673	1.00	0.00	H
ATOM49	HG	SER A	5117.844	10.722	-13.326	1.00	0.00	H
ATOM50	N	SER A	6119.900	7.513	-10.346	1.00	0.00	N
ATOM51	CA	SER A	6120.517	6.898	-9.176	1.00	0.00	C
ATOM52	C	SER A	6121.346	7.916	-8.400	1.00	0.00	C
ATOM53	O	SER A	6122.263	8.530	-8.945	1.00	0.00	O
ATOM54	CB	SER A	6121.398	5.721	-9.598	1.00	0.00	C
ATOM55	OG	SER A	6120.613	4.582	-9.910	1.00	0.00	O
ATOM56	H	SER A	6120.261	7.315	-11.236	1.00	0.00	H
ATOM57	HA	SER A	6119.726	6.534	-8.537	1.00	0.00	H
ATOM58	1HB	SER A	6121.972	5.997	-10.469	1.00	0.00	H
ATOM59	2HB	SER A	6122.069	5.468	-8.789	1.00	0.00	H
ATOM60	HG	SER A	6119.941	4.824	-10.552	1.00	0.00	H
ATOM61	N	GLY A	7121.018	8.090	-7.124	1.00	0.00	N
ATOM62	CA	GLY A	7121.741	9.034	-6.294	1.00	0.00	C
ATOM63	C	GLY A	7123.057	8.474	-5.789	1.00	0.00	C
ATOM64	O	GLY A	7123.371	7.306	-6.020	1.00	0.00	O
ATOM65	H	GLY A	7120.277	7.572	-6.743	1.00	0.00	H
ATOM66	1HA	GLY A	7121.940	9.925	-6.871	1.00	0.00	H
ATOM67	2HA	GLY A	7121.126	9.297	-5.446	1.00	0.00	H
ATOM68	N	LEU A	8123.827	9.308	-5.098	1.00	0.00	N
ATOM69	CA	LEU A	8125.116	8.891	-4.559	1.00	0.00	C
ATOM70	C	LEU A	8125.238	9.269	-3.087	1.00	0.00	C
ATOM71	O	LEU A	8124.313	9.831	-2.501	1.00	0.00	O
ATOM72	CB	LEU A	8126.256	9.526	-5.357	1.00	0.00	C

ATOM73	CG	LEU A	8126.181	9.318	-6.871	1.00	0.00 C
ATOM74	CD1	LEU A	8126.778	10.510	-7.604	1.00	0.00 C
ATOM75	CD2	LEU A	8126.893	8.035	-7.268	1.00	0.00 C
ATOM76	H	LEU A	8123.521	10.228	-4.948	1.00	0.00 H
ATOM77	HA	LEU A	8125.180	7.817	-4.650	1.00	0.00 H
ATOM78	1HB	LEU A	8126.257	10.589	-5.160	1.00	0.00 H
ATOM79	2HB	LEU A	8127.188	9.111	-5.006	1.00	0.00 H
ATOM80	HG	LEU A	8125.145	9.233	-7.165	1.00	0.00 H
ATOM81	1HD1	LEU A	8126.595	10.410	-8.663	1.00	0.00 H
ATOM82	2HD1	LEU A	8127.842	10.547	-7.424	1.00	0.00 H
ATOM83	3HD1	LEU A	8126.321	11.420	-7.243	1.00	0.00 H
ATOM84	1HD2	LEU A	8127.032	8.016	-8.338	1.00	0.00 H
ATOM85	2HD2	LEU A	8126.298	7.185	-6.968	1.00	0.00 H
ATOM86	3HD2	LEU A	8127.855	7.991	-6.778	1.00	0.00 H
ATOM87	N	ALAA	9126.386	8.956	-2.494	1.00	0.00 N
ATOM88	CA	ALAA	9126.629	9.263	-1.089	1.00	0.00 C
ATOM89	C	ALAA	9128.123	9.319	-0.790	1.00	0.00 C
ATOM90	O	ALAA	9128.784	8.286	-0.684	1.00	0.00 O
ATOM91	CB	ALAA	9125.948	8.234	-0.200	1.00	0.00 C
ATOM92	H	ALAA	9127.085	8.509	-3.014	1.00	0.00 H
ATOM93	HA	ALAA	9126.193	10.230	-0.879	1.00	0.00 H
ATOM94	1HB	ALAA	9126.527	8.100	0.702	1.00	0.00 H
ATOM95	2HB	ALAA	9125.879	7.293	-0.726	1.00	0.00 H
ATOM96	3HB	ALAA	9124.957	8.578	0.056	1.00	0.00 H
ATOM97	N	META	10128.649	10.532	-0.656	1.00	0.00 N
ATOM98	CA	META	10130.065	10.723	-0.368	1.00	0.00 C
ATOM99	C	META	10130.375	12.196	-0.106	1.00	0.00 C

ATOM	100	O	MET A	10131.055	12.848	-0.897	1.00	0.00 O
ATOM	101	CB	MET A	10130.917	10.208	-1.531	1.00	0.00 C
ATOM	102	CG	MET A	10130.463	10.718	-2.889	1.00	0.00 C
ATOM	103	SD	MET A	10130.805	9.549	-4.219	1.00	0.00 S
ATOM	104	CE	MET A	10131.247	10.668	-5.547	1.00	0.00 C
ATOM	105	H	MET A	10128.071	11.318	-0.752	1.00	0.00 H
ATOM	106	HA	MET A	10130.303	10.155	0.519	1.00	0.00 H
ATOM	107	1HB	MET A	10131.940	10.518	-1.378	1.00	0.00 H
ATOM	108	2HB	MET A	10130.875	9.129	-1.544	1.00	0.00 H
ATOM	109	1HG	MET A	10129.399	10.900	-2.854	1.00	0.00 H
ATOM	110	2HG	MET A	10130.978	11.644	-3.101	1.00	0.00 H
ATOM	111	1HE	MET A	10131.070	10.186	-6.498	1.00	0.00 H
ATOM	112	2HE	MET A	10132.292	10.929	-5.464	1.00	0.00 H
ATOM	113	3HE	MET A	10130.646	11.563	-5.479	1.00	0.00 H
ATOM	114	N	PRO A	11129.875	12.741	1.016	1.00	0.00 N
ATOM	115	CA	PRO A	11130.099	14.144	1.382	1.00	0.00 C
ATOM	116	C	PRO A	11131.584	14.494	1.481	1.00	0.00 C
ATOM	117	O	PRO A	11132.022	15.511	0.943	1.00	0.00 O
ATOM	118	CB	PRO A	11129.422	14.281	2.749	1.00	0.00 C
ATOM	119	CG	PRO A	11128.447	13.156	2.814	1.00	0.00 C
ATOM	120	CD	PRO A	11129.052	12.036	2.016	1.00	0.00 C
ATOM	121	HA	PRO A	11129.625	14.812	0.676	1.00	0.00 H
ATOM	122	1HB	PRO A	11130.163	14.208	3.530	1.00	0.00 H
ATOM	123	2HB	PRO A	11128.923	15.237	2.810	1.00	0.00 H
ATOM	124	1HG	PRO A	11128.307	12.850	3.840	1.00	0.00 H
ATOM	125	2HG	PRO A	11127.506	13.459	2.380	1.00	0.00 H
ATOM	126	1HD	PRO A	11129.664	11.409	2.646	1.00	0.00 H

ATOM	127	2HD	PRO A	11128.279	11.453	1.535	1.00	0.00	H
ATOM	128	N	PRO A	12132.385	13.659	2.172	1.00	0.00	N
ATOM	129	CA	PRO A	12133.818	13.901	2.329	1.00	0.00	C
ATOM	130	C	PRO A	12134.619	13.477	1.102	1.00	0.00	C
ATOM	131	O	PRO A	12135.603	14.120	0.738	1.00	0.00	O
ATOM	132	CB	PRO A	12134.181	13.034	3.531	1.00	0.00	C
ATOM	133	CG	PRO A	12133.233	11.887	3.465	1.00	0.00	C
ATOM	134	CD	PRO A	12131.961	12.417	2.853	1.00	0.00	C
ATOM	135	HA	PRO A	12134.024	14.938	2.554	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.207	12.707	3.447	1.00	0.00	H
ATOM	137	2HB	PRO A	12134.051	13.600	4.442	1.00	0.00	H
ATOM	138	1HG	PRO A	12133.647	11.106	2.844	1.00	0.00	H
ATOM	139	2HG	PRO A	12133.041	11.512	4.460	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.563	11.708	2.144	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.234	12.629	3.622	1.00	0.00	H
ATOM	142	N	GLY A	13134.188	12.392	0.467	1.00	0.00	N
ATOM	143	CA	GLY A	13134.875	11.901	-0.713	1.00	0.00	C
ATOM	144	C	GLY A	13135.010	10.391	-0.720	1.00	0.00	C
ATOM	145	O	GLY A	13134.551	9.716	0.201	1.00	0.00	O
ATOM	146	H	GLY A	13133.397	11.920	0.804	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.324	12.206	-1.589	1.00	0.00	H
ATOM	148	2HA	GLY A	13135.861	12.340	-0.749	1.00	0.00	H
ATOM	149	N	ASN A	14135.641	9.860	-1.761	1.00	0.00	N
ATOM	150	CA	ASN A	14135.837	8.420	-1.885	1.00	0.00	C
ATOM	151	C	ASN A	14134.497	7.691	-1.923	1.00	0.00	C
ATOM	152	O	ASN A	14133.438	8.314	-1.851	1.00	0.00	O
ATOM	153	CB	ASN A	14136.683	7.898	-0.723	1.00	0.00	C

ATOM	154	CG	ASN A	14138.135	8.322	-0.829	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.617	8.665	-1.908	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.841	8.302	0.296	1.00	0.00	N
ATOM	157	H	ASN A	14135.985	10.452	-2.464	1.00	0.00	H
ATOM	158	HA	ASN A	14136.360	8.236	-2.811	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.283	8.277	0.205	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.642	6.818	-0.714	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.392	8.017	1.119	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.782	8.571	0.257	1.00	0.00	H
ATOM	163	N	SER A	15134.553	6.368	-2.035	1.00	0.00	N
ATOM	164	CA	SER A	15133.345	5.554	-2.081	1.00	0.00	C
ATOM	165	C	SER A	15132.712	5.439	-0.698	1.00	0.00	C
ATOM	166	O	SER A	15131.601	5.916	-0.471	1.00	0.00	O
ATOM	167	CB	SER A	15133.664	4.161	-2.626	1.00	0.00	C
ATOM	168	OG	SER A	15132.515	3.330	-2.608	1.00	0.00	O
ATOM	169	H	SER A	15135.428	5.930	-2.088	1.00	0.00	H
ATOM	170	HA	SER A	15132.644	6.038	-2.745	1.00	0.00	H
ATOM	171	1HB	SER A	15134.015	4.246	-3.644	1.00	0.00	H
ATOM	172	2HB	SER A	15134.432	3.706	-2.017	1.00	0.00	H
ATOM	173	HG	SER A	15131.798	3.765	-3.075	1.00	0.00	H
ATOM	174	N	HIS A	16133.429	4.802	0.223	1.00	0.00	N
ATOM	175	CA	HIS A	16132.938	4.625	1.585	1.00	0.00	C
ATOM	176	C	HIS A	16133.755	5.454	2.570	1.00	0.00	C
ATOM	177	O	HIS A	16133.221	6.328	3.255	1.00	0.00	O
ATOM	178	CB	HIS A	16132.989	3.147	1.979	1.00	0.00	C
ATOM	179	CG	HIS A	16131.830	2.351	1.466	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.190	1.385	2.214	1.00	0.00	N

ATOM	181	CD2 HIS A	16131.194	2.380	0.270	1.00	0.00 C
ATOM	182	CE1 HIS A	16130.213	0.855	1.502	1.00	0.00 C
ATOM	183	NE2 HIS A	16130.193	1.441	0.320	1.00	0.00 N
ATOM	184	H HIS A	16134.308	4.444	-0.019	1.00	0.00 H
ATOM	185	HA HIS A	16131.912	4.961	1.614	1.00	0.00 H
ATOM	186	1HB HIS A	16133.894	2.708	1.586	1.00	0.00 H
ATOM	187	2HB HIS A	16132.996	3.070	3.057	1.00	0.00 H
ATOM	188	HD1 HIS A	16131.419	1.126	3.131	1.00	0.00 H
ATOM	189	HD2 HIS A	16131.431	3.023	-0.566	1.00	0.00 H
ATOM	190	HE1 HIS A	16129.542	0.075	1.831	1.00	0.00 H
ATOM	191	HE2 HIS A	16129.624	1.178	-0.433	1.00	0.00 H
ATOM	192	N GLY A	17135.053	5.176	2.637	1.00	0.00 N
ATOM	193	CA GLY A	17135.923	5.906	3.540	1.00	0.00 C
ATOM	194	C GLY A	17137.327	5.338	3.579	1.00	0.00 C
ATOM	195	O GLY A	17137.793	4.888	4.626	1.00	0.00 O
ATOM	196	H GLY A	17135.423	4.470	2.067	1.00	0.00 H
ATOM	197	1HA GLY A	17135.972	6.937	3.222	1.00	0.00 H
ATOM	198	2HA GLY A	17135.503	5.868	4.535	1.00	0.00 H
ATOM	199	N LEU A	18138.003	5.358	2.435	1.00	0.00 N
ATOM	200	CA LEU A	18139.364	4.840	2.343	1.00	0.00 C
ATOM	201	C LEU A	18140.375	5.880	2.816	1.00	0.00 C
ATOM	202	O LEU A	18140.747	6.783	2.069	1.00	0.00 O
ATOM	203	CB LEU A	18139.678	4.425	0.904	1.00	0.00 C
ATOM	204	CG LEU A	18138.592	3.593	0.219	1.00	0.00 C
ATOM	205	CD1 LEU A	18138.622	3.811	-1.286	1.00	0.00 C
ATOM	206	CD2 LEU A	18138.766	2.118	0.549	1.00	0.00 C
ATOM	207	H LEU A	18137.578	5.730	1.635	1.00	0.00 H

ATOM	208	HA	LEU A	18139.432	3.971	2.981	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.838	5.321	0.321	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.591	3.851	0.909	1.00	0.00	H
ATOM	211	HG	LEU A	18137.625	3.907	0.581	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.823	4.852	-1.494	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.668	3.537	-1.709	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.399	3.201	-1.723	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.807	1.916	0.753	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.441	1.521	-0.290	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.174	1.872	1.417	1.00	0.00	H
ATOM	218	N	GLU A	19140.815	5.743	4.063	1.00	0.00	N
ATOM	219	CA	GLU A	19141.783	6.672	4.636	1.00	0.00	C
ATOM	220	C	GLU A	19142.815	5.929	5.479	1.00	0.00	C
ATOM	221	O	GLU A	19142.747	4.709	5.629	1.00	0.00	O
ATOM	222	CB	GLU A	19141.071	7.722	5.490	1.00	0.00	C
ATOM	223	CG	GLU A	19140.297	7.134	6.659	1.00	0.00	C
ATOM	224	CD	GLU A	19138.960	7.814	6.874	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.947	9.047	7.076	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.926	7.115	6.841	1.00	0.00	O
ATOM	227	H	GLU A	19140.481	5.002	4.610	1.00	0.00	H
ATOM	228	HA	GLU A	19142.291	7.167	3.822	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.807	8.409	5.883	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.379	8.268	4.866	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.123	6.086	6.467	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.889	7.241	7.556	1.00	0.00	H
ATOM	233	N	VAL A	20143.770	6.673	6.027	1.00	0.00	N
ATOM	234	CA	VAL A	20144.816	6.085	6.855	1.00	0.00	C

ATOM	235	C	VAL A	20144.228	5.443	8.107	1.00	0.00	C
ATOM	236	O	VAL A	20143.419	6.052	8.808	1.00	0.00	O
ATOM	237	CB	VAL A	20145.861	7.139	7.273	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.021	6.481	8.006	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.357	7.912	6.061	1.00	0.00	C
ATOM	240	H	VAL A	20143.771	7.640	5.871	1.00	0.00	H
ATOM	241	HA	VAL A	20145.315	5.326	6.272	1.00	0.00	H
ATOM	242	HB	VAL A	20145.387	7.836	7.950	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.265	5.545	7.526	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.740	6.297	9.032	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.880	7.134	7.980	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.663	7.787	5.243	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.328	7.539	5.769	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.434	8.961	6.310	1.00	0.00	H
ATOM	249	N	GLY A	21144.638	4.210	8.382	1.00	0.00	N
ATOM	250	CA	GLY A	21144.141	3.506	9.549	1.00	0.00	C
ATOM	251	C	GLY A	21143.099	2.461	9.198	1.00	0.00	C
ATOM	252	O	GLY A	21142.989	1.435	9.867	1.00	0.00	O
ATOM	253	H	GLY A	21145.285	3.774	7.786	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.971	3.019	10.042	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.704	4.221	10.228	1.00	0.00	H
ATOM	256	N	SER A	22142.331	2.726	8.146	1.00	0.00	N
ATOM	257	CA	SER A	22141.292	1.801	7.707	1.00	0.00	C
ATOM	258	C	SER A	22141.866	0.741	6.773	1.00	0.00	C
ATOM	259	O	SER A	22142.852	0.981	6.076	1.00	0.00	O
ATOM	260	CB	SER A	22140.167	2.563	7.004	1.00	0.00	C
ATOM	261	OG	SER A	22139.925	3.810	7.631	1.00	0.00	O

ATOM	262	H	SER A	22142.467	3.562	7.652	1.00	0.00	H
ATOM	263	HA	SER A	22140.892	1.313	8.583	1.00	0.00	H
ATOM	264	1HB	SER A	22140.443	2.739	5.975	1.00	0.00	H
ATOM	265	2HB	SER A	22139.262	1.975	7.038	1.00	0.00	H
ATOM	266	HG	SER A	22140.662	4.402	7.462	1.00	0.00	H
ATOM	267	N	LEU A	23141.242	-0.432	6.764	1.00	0.00	N
ATOM	268	CA	LEU A	23141.691	-1.530	5.915	1.00	0.00	C
ATOM	269	C	LEU A	23141.197	-1.347	4.483	1.00	0.00	C
ATOM	270	O	LEU A	23140.145	-0.753	4.249	1.00	0.00	O
ATOM	271	CB	LEU A	23141.196	-2.867	6.470	1.00	0.00	C
ATOM	272	CG	LEU A	23141.604	-3.157	7.915	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.672	-4.187	8.535	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.046	-3.636	7.975	1.00	0.00	C
ATOM	275	H	LEU A	23140.461	-0.563	7.341	1.00	0.00	H
ATOM	276	HA	LEU A	23142.770	-1.528	5.914	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.117	-2.880	6.412	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.582	-3.657	5.845	1.00	0.00	H
ATOM	279	HG	LEU A	23141.528	-2.248	8.494	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.727	-4.178	8.014	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.512	-3.947	9.576	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.117	-5.168	8.457	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.069	-4.716	7.938	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.501	-3.297	8.893	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.593	-3.237	7.134	1.00	0.00	H
ATOM	286	N	ALA A	24141.966	-1.861	3.528	1.00	0.00	N
ATOM	287	CA	ALA A	24141.607	-1.755	2.119	1.00	0.00	C
ATOM	288	C	ALA A	24142.207	-2.901	1.312	1.00	0.00	C

ATOM	289	O	ALA A	24143.207	-3.497	1.710	1.00	0.00	O
ATOM	290	CB	ALA A	24142.064	-0.416	1.558	1.00	0.00	C
ATOM	291	H	ALA A	24142.794	-2.324	3.777	1.00	0.00	H
ATOM	292	HA	ALA A	24140.531	-1.800	2.045	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.180	-0.496	0.488	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.010	-0.144	2.004	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.327	0.340	1.786	1.00	0.00	H
ATOM	296	N	GLU A	25141.589	-3.203	0.174	1.00	0.00	N
ATOM	297	CA	GLU A	25142.062	-4.278	-0.690	1.00	0.00	C
ATOM	298	C	GLU A	25142.338	-3.762	-2.098	1.00	0.00	C
ATOM	299	O	GLU A	25141.676	-2.839	-2.573	1.00	0.00	O
ATOM	300	CB	GLU A	25141.033	-5.409	-0.743	1.00	0.00	C
ATOM	301	CG	GLU A	25141.594	-6.719	-1.273	1.00	0.00	C
ATOM	302	CD	GLU A	25140.616	-7.452	-2.170	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.094	-8.503	-1.745	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.373	-6.974	-3.298	1.00	0.00	O
ATOM	305	H	GLU A	25140.796	-2.691	-0.090	1.00	0.00	H
ATOM	306	HA	GLU A	25142.981	-4.660	-0.273	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.654	-5.582	0.254	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.216	-5.108	-1.382	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.490	-6.509	-1.838	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.839	-7.355	-0.435	1.00	0.00	H
ATOM	311	N	VAL A	26143.320	-4.363	-2.762	1.00	0.00	N
ATOM	312	CA	VAL A	26143.685	-3.963	-4.117	1.00	0.00	C
ATOM	313	C	VAL A	26143.360	-5.066	-5.118	1.00	0.00	C
ATOM	314	O	VAL A	26143.246	-6.236	-4.754	1.00	0.00	O
ATOM	315	CB	VAL A	26145.182	-3.618	-4.218	1.00	0.00	C

ATOM	316	CG1	VAL A	26145.509	-3.044	-5.588	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.584	-2.644	-3.118	1.00	0.00	C
ATOM	318	H	VAL A	26143.812	-5.093	-2.331	1.00	0.00	H
ATOM	319	HA	VAL A	26143.114	-3.081	-4.369	1.00	0.00	H
ATOM	320	HB	VAL A	26145.751	-4.526	-4.088	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.679	-2.444	-5.935	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.684	-3.851	-6.284	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.394	-2.428	-5.520	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.536	-2.941	-2.704	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.835	-2.653	-2.338	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.664	-1.649	-3.528	1.00	0.00	H
ATOM	327	N	LYS A	27143.212	-4.684	-6.384	1.00	0.00	N
ATOM	328	CA	LYS A	27142.900	-5.642	-7.439	1.00	0.00	C
ATOM	329	C	LYS A	27144.165	-6.072	-8.175	1.00	0.00	C
ATOM	330	O	LYS A	27144.162	-6.233	-9.396	1.00	0.00	O
ATOM	331	CB	LYS A	27141.902	-5.034	-8.427	1.00	0.00	C
ATOM	332	CG	LYS A	27140.894	-6.036	-8.966	1.00	0.00	C
ATOM	333	CD	LYS A	27139.575	-5.367	-9.315	1.00	0.00	C
ATOM	334	CE	LYS A	27138.895	-6.053	-10.489	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.541	-5.492	-10.753	1.00	0.00	N
ATOM	336	H	LYS A	27143.314	-3.737	-6.612	1.00	0.00	H
ATOM	337	HA	LYS A	27142.453	-6.509	-6.977	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.360	-4.242	-7.932	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.446	-4.619	-9.261	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.299	-6.497	-9.855	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.716	-6.793	-8.216	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.921	-5.412	-8.457	1.00	0.00	H

ATOM	343	2HD	LYS A	27139.764	-4.335	-9.574	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.507	-5.924	-11.369	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.802	-7.106	-10.268	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.043	-5.325	-9.856	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.985	-6.156	-11.327	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.623	-4.590	-11.266	1.00	0.00	H
ATOM	349	N	GLU A	28145.246	-6.258	-7.425	1.00	0.00	N
ATOM	350	CA	GLU A	28146.518	-6.670	-8.006	1.00	0.00	C
ATOM	351	C	GLU A	28146.536	-8.173	-8.267	1.00	0.00	C
ATOM	352	O	GLU A	28145.548	-8.866	-8.026	1.00	0.00	O
ATOM	353	CB	GLU A	28147.676	-6.285	-7.081	1.00	0.00	C
ATOM	354	CG	GLU A	28148.812	-5.570	-7.793	1.00	0.00	C
ATOM	355	CD	GLU A	28149.849	-5.024	-6.832	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.665	-3.890	-6.341	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.846	-5.729	-6.570	1.00	0.00	O
ATOM	358	H	GLU A	28145.188	-6.114	-6.457	1.00	0.00	H
ATOM	359	HA	GLU A	28146.635	-6.153	-8.947	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.299	-5.634	-6.306	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.071	-7.181	-6.624	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.295	-6.267	-8.462	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.402	-4.750	-8.363	1.00	0.00	H
ATOM	364	N	ASN A	29147.665	-8.670	-8.759	1.00	0.00	N
ATOM	365	CA	ASN A	29147.812	-10.091	-9.051	1.00	0.00	C
ATOM	366	C	ASN A	29147.742	-10.920	-7.771	1.00	0.00	C
ATOM	367	O	ASN A	29146.888	-11.796	-7.635	1.00	0.00	O
ATOM	368	CB	ASN A	29149.137	-10.351	-9.771	1.00	0.00	C
ATOM	369	CG	ASN A	29148.975	-10.405	-11.278	1.00	0.00	C

ATOM	370	OD1	ASN A	29148.949	-11.483	-11.873	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.866	-9.238	-11.903	1.00	0.00	N
ATOM	372	H	ASN A	29148.419	-8.067	-8.930	1.00	0.00	H
ATOM	373	HA	ASN A	29146.998	-10.381	-9.698	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.832	-9.559	-9.532	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.543	-11.294	-9.436	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.895	-8.420	-11.365	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.759	-9.244	-12.877	1.00	0.00	H
ATOM	378	N	PRO A	30148.644	-10.654	-6.810	1.00	0.00	N
ATOM	379	CA	PRO A	30148.679	-11.379	-5.538	1.00	0.00	C
ATOM	380	C	PRO A	30147.577	-10.926	-4.581	1.00	0.00	C
ATOM	381	O	PRO A	30147.624	-9.814	-4.054	1.00	0.00	O
ATOM	382	CB	PRO A	30150.055	-11.023	-4.975	1.00	0.00	C
ATOM	383	CG	PRO A	30150.347	-9.672	-5.528	1.00	0.00	C
ATOM	384	CD	PRO A	30149.700	-9.624	-6.887	1.00	0.00	C
ATOM	385	HA	PRO A	30148.614	-12.446	-5.688	1.00	0.00	H
ATOM	386	1HB	PRO A	30150.013	-11.010	-3.896	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.781	-11.751	-5.305	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.925	-8.913	-4.886	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.415	-9.536	-5.618	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.273	-8.649	-7.067	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.418	-9.867	-7.656	1.00	0.00	H
ATOM	392	N	PRO A	31146.566	-11.781	-4.340	1.00	0.00	N
ATOM	393	CA	PRO A	31145.456	-11.452	-3.440	1.00	0.00	C
ATOM	394	C	PRO A	31145.899	-11.362	-1.984	1.00	0.00	C
ATOM	395	O	PRO A	31145.964	-12.370	-1.281	1.00	0.00	O
ATOM	396	CB	PRO A	31144.481	-12.617	-3.631	1.00	0.00	C

ATOM	397	CG	PRO A	31145.328	-13.747	-4.103	1.00	0.00	C
ATOM	398	CD	PRO A	31146.425	-13.129	-4.923	1.00	0.00	C
ATOM	399	HA	PRO A	31144.977	-10.527	-3.727	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.002	-12.846	-2.691	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.736	-12.350	-4.366	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.744	-14.273	-3.255	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.739	-14.419	-4.710	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.339	-13.694	-4.817	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.134	-13.071	-5.961	1.00	0.00	H
ATOM	406	N	PHE A	32146.203	-10.148	-1.538	1.00	0.00	N
ATOM	407	CA	PHE A	32146.641	-9.923	-0.166	1.00	0.00	C
ATOM	408	C	PHE A	32145.724	-8.933	0.544	1.00	0.00	C
ATOM	409	O	PHE A	32144.840	-8.338	-0.074	1.00	0.00	O
ATOM	410	CB	PHE A	32148.080	-9.407	-0.145	1.00	0.00	C
ATOM	411	CG	PHE A	32148.292	-8.187	-0.997	1.00	0.00	C
ATOM	412	CD1	PHE A	32149.042	-8.259	-2.158	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.740	-6.969	-0.633	1.00	0.00	C
ATOM	414	CE1	PHE A	32149.238	-7.138	-2.944	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.932	-5.845	-1.414	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.682	-5.930	-2.571	1.00	0.00	C
ATOM	417	H	PHE A	32146.131	-9.382	-2.147	1.00	0.00	H
ATOM	418	HA	PHE A	32146.601	-10.869	0.354	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.351	-9.154	0.869	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.739	-10.183	-0.506	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.478	-9.203	-2.451	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.153	-6.901	0.271	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.826	-7.207	-3.848	1.00	0.00	H

ATOM	424	HE2 PHE A	32147.496	-4.902	-1.121	1.00	0.00	H
ATOM	425	HZ PHE A	32148.833	-5.053	-3.183	1.00	0.00	H
ATOM	426	N TYR A	33145.939	-8.760	1.844	1.00	0.00	N
ATOM	427	CA TYR A	33145.131	-7.841	2.637	1.00	0.00	C
ATOM	428	C TYR A	33146.016	-6.929	3.481	1.00	0.00	C
ATOM	429	O TYR A	33146.804	-7.398	4.302	1.00	0.00	O
ATOM	430	CB TYR A	33144.174	-8.620	3.540	1.00	0.00	C
ATOM	431	CG TYR A	33143.008	-9.236	2.800	1.00	0.00	C
ATOM	432	CD1 TYR A	33142.205	-8.467	1.967	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.710	-10.586	2.936	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.138	-9.026	1.290	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.645	-11.152	2.261	1.00	0.00	C
ATOM	436	CZ TYR A	33140.862	-10.369	1.439	1.00	0.00	C
ATOM	437	OH TYR A	33139.801	-10.929	0.767	1.00	0.00	O
ATOM	438	H TYR A	33146.658	-9.263	2.280	1.00	0.00	H
ATOM	439	HA TYR A	33144.555	-7.234	1.955	1.00	0.00	H
ATOM	440	1HB TYR A	33144.716	-9.418	4.026	1.00	0.00	H
ATOM	441	2HB TYR A	33143.777	-7.954	4.292	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.424	-7.416	1.852	1.00	0.00	H
ATOM	443	HD2 TYR A	33143.324	-11.198	3.580	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.526	-8.412	0.646	1.00	0.00	H
ATOM	445	HE2 TYR A	33141.429	-12.204	2.379	1.00	0.00	H
ATOM	446	HH TYR A	33139.049	-11.001	1.359	1.00	0.00	H
ATOM	447	N GLY A	34145.880	-5.623	3.273	1.00	0.00	N
ATOM	448	CA GLY A	34146.673	-4.667	4.022	1.00	0.00	C
ATOM	449	C GLY A	34145.866	-3.460	4.458	1.00	0.00	C
ATOM	450	O GLY A	34144.754	-3.241	3.978	1.00	0.00	O

ATOM	451	H	GLY A	34145.235	-5.307	2.606	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.072	-5.156	4.898	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.493	-4.333	3.403	1.00	0.00	H
ATOM	454	N	VAL A	35146.428	-2.675	5.373	1.00	0.00	N
ATOM	455	CA	VAL A	35145.754	-1.484	5.875	1.00	0.00	C
ATOM	456	C	VAL A	35146.411	-0.215	5.340	1.00	0.00	C
ATOM	457	O	VAL A	35147.621	-0.176	5.121	1.00	0.00	O
ATOM	458	CB	VAL A	35145.756	-1.446	7.417	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.180	-1.401	7.951	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.950	-0.261	7.926	1.00	0.00	C
ATOM	461	H	VAL A	35147.317	-2.902	5.717	1.00	0.00	H
ATOM	462	HA	VAL A	35144.728	-1.515	5.539	1.00	0.00	H
ATOM	463	HB	VAL A	35145.291	-2.351	7.779	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.699	-2.306	7.670	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.158	-1.319	9.028	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.694	-0.547	7.534	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.306	0.645	7.457	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.064	-0.180	8.996	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.907	-0.405	7.685	1.00	0.00	H
ATOM	470	N	ILE A	36145.604	0.821	5.134	1.00	0.00	N
ATOM	471	CA	ILE A	36146.108	2.091	4.625	1.00	0.00	C
ATOM	472	C	ILE A	36147.069	2.736	5.619	1.00	0.00	C
ATOM	473	O	ILE A	36146.838	2.711	6.827	1.00	0.00	O
ATOM	474	CB	ILE A	36144.959	3.074	4.326	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.910	2.412	3.430	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.497	4.338	3.673	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.744	3.315	3.095	1.00	0.00	C

ATOM	478	H	ILE A	36144.649	0.729	5.329	1.00	0.00	H
ATOM	479	HA	ILE A	36146.636	1.895	3.704	1.00	0.00	H
ATOM	480	HB	ILE A	36144.498	3.351	5.263	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.376	2.114	2.502	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.520	1.537	3.929	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.117	4.072	2.830	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.084	4.893	4.390	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.673	4.949	3.335	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.048	4.347	3.190	1.00	0.00	H
ATOM	487	2HD1	ILE A	36141.927	3.116	3.772	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.423	3.126	2.080	1.00	0.00	H
ATOM	489	N	ARG A	37148.149	3.311	5.101	1.00	0.00	N
ATOM	490	CA	ARG A	37149.147	3.962	5.942	1.00	0.00	C
ATOM	491	C	ARG A	37149.368	5.408	5.509	1.00	0.00	C
ATOM	492	O	ARG A	37149.156	6.337	6.286	1.00	0.00	O
ATOM	493	CB	ARG A	37150.470	3.194	5.888	1.00	0.00	C
ATOM	494	CG	ARG A	37150.333	1.721	6.234	1.00	0.00	C
ATOM	495	CD	ARG A	37149.761	1.528	7.630	1.00	0.00	C
ATOM	496	NE	ARG A	37150.620	2.110	8.658	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.211	2.390	9.894	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.959	2.143	10.258	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.057	2.917	10.769	1.00	0.00	N
ATOM	500	H	ARG A	37148.278	3.298	4.129	1.00	0.00	H
ATOM	501	HA	ARG A	37148.779	3.955	6.958	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.876	3.271	4.890	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.162	3.644	6.584	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.674	1.252	5.519	1.00	0.00	H

ATOM	505	2HG	ARG A	37151.308	1.258	6.187	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.791	2.000	7.676	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.655	0.470	7.818	1.00	0.00	H
ATOM	508	HE	ARG A	37151.550	2.303	8.417	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.316	1.745	9.604	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.658	2.355	11.188	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.002	3.105	10.500	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.750	3.127	11.697	1.00	0.00	H
ATOM	513	N	TRP A	38149.794	5.590	4.263	1.00	0.00	N
ATOM	514	CA	TRP A	38150.043	6.924	3.730	1.00	0.00	C
ATOM	515	C	TRP A	38149.298	7.137	2.415	1.00	0.00	C
ATOM	516	O	TRP A	38149.328	6.287	1.526	1.00	0.00	O
ATOM	517	CB	TRP A	38151.546	7.142	3.521	1.00	0.00	C
ATOM	518	CG	TRP A	38151.871	8.390	2.752	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.099	9.635	3.264	1.00	0.00	C
ATOM	520	CD2	TRP A	38151.999	8.511	1.330	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.360	10.523	2.248	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.305	9.856	1.051	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.885	7.612	0.266	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.498	10.322	-0.248	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.078	8.075	-1.022	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.381	9.419	-1.270	1.00	0.00	C
ATOM	527	H	TRP A	38149.946	4.810	3.690	1.00	0.00	H
ATOM	528	HA	TRP A	38149.683	7.642	4.452	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.030	7.211	4.484	1.00	0.00	H
ATOM	530	2HB	TRP A	38151.953	6.301	2.979	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.072	9.873	4.317	1.00	0.00	H

ATOM	532	HE1 TRP A	38152.555	11.475	2.361	1.00	0.00 H
ATOM	533	HE3 TRP A	38151.652	6.572	0.437	1.00	0.00 H
ATOM	534	HZ2 TRP A	38152.730	11.356	-0.456	1.00	0.00 H
ATOM	535	HZ3 TRP A	38151.994	7.394	-1.856	1.00	0.00 H
ATOM	536	HH2 TRP A	38152.524	9.737	-2.293	1.00	0.00 H
ATOM	537	N ILE A	39148.639	8.285	2.299	1.00	0.00 N
ATOM	538	CA ILE A	39147.894	8.625	1.094	1.00	0.00 C
ATOM	539	C ILE A	39148.358	9.967	0.540	1.00	0.00 C
ATOM	540	O ILE A	39148.049	11.018	1.101	1.00	0.00 O
ATOM	541	CB ILE A	39146.379	8.686	1.364	1.00	0.00 C
ATOM	542	CG1 ILE A	39145.915	7.420	2.087	1.00	0.00 C
ATOM	543	CG2 ILE A	39145.614	8.869	0.061	1.00	0.00 C
ATOM	544	CD1 ILE A	39144.605	7.591	2.824	1.00	0.00 C
ATOM	545	H ILE A	39148.663	8.925	3.041	1.00	0.00 H
ATOM	546	HA ILE A	39148.080	7.857	0.357	1.00	0.00 H
ATOM	547	HB ILE A	39146.182	9.543	1.991	1.00	0.00 H
ATOM	548	1HG1 ILE A	39145.788	6.627	1.366	1.00	0.00 H
ATOM	549	2HG1 ILE A	39146.666	7.128	2.807	1.00	0.00 H
ATOM	550	1HG2 ILE A	39145.691	7.968	-0.530	1.00	0.00 H
ATOM	551	2HG2 ILE A	39146.034	9.697	-0.489	1.00	0.00 H
ATOM	552	3HG2 ILE A	39144.576	9.070	0.279	1.00	0.00 H
ATOM	553	1HD1 ILE A	39144.518	8.609	3.174	1.00	0.00 H
ATOM	554	2HD1 ILE A	39144.577	6.917	3.668	1.00	0.00 H
ATOM	555	3HD1 ILE A	39143.785	7.369	2.158	1.00	0.00 H
ATOM	556	N GLY A	40149.108	9.926	-0.555	1.00	0.00 N
ATOM	557	CA GLY A	40149.607	11.150	-1.153	1.00	0.00 C
ATOM	558	C GLY A	40150.146	10.941	-2.554	1.00	0.00 C

ATOM	559	O	GLY A	40149.952	9.882	-3.152	1.00	0.00	O
ATOM	560	H	GLY A	40149.329	9.060	-0.958	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.806	11.871	-1.192	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.397	11.541	-0.532	1.00	0.00	H
ATOM	563	N	GLN A	41150.820	11.958	-3.078	1.00	0.00	N
ATOM	564	CA	GLN A	41151.389	11.894	-4.417	1.00	0.00	C
ATOM	565	C	GLN A	41152.862	12.299	-4.398	1.00	0.00	C
ATOM	566	O	GLN A	41153.193	13.443	-4.086	1.00	0.00	O
ATOM	567	CB	GLN A	41150.606	12.808	-5.358	1.00	0.00	C
ATOM	568	CG	GLN A	41149.100	12.628	-5.266	1.00	0.00	C
ATOM	569	CD	GLN A	41148.352	13.944	-5.322	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.345	14.710	-4.359	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.717	14.213	-6.456	1.00	0.00	N
ATOM	572	H	GLN A	41150.936	12.775	-2.551	1.00	0.00	H
ATOM	573	HA	GLN A	41151.306	10.876	-4.766	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.839	13.835	-5.119	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.912	12.607	-6.372	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.772	12.011	-6.089	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.865	12.137	-4.333	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.767	13.556	-7.179	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.226	15.059	-6.523	1.00	0.00	H
ATOM	580	N	PRO A	42153.773	11.365	-4.729	1.00	0.00	N
ATOM	581	CA	PRO A	42155.214	11.639	-4.743	1.00	0.00	C
ATOM	582	C	PRO A	42155.575	12.795	-5.670	1.00	0.00	C
ATOM	583	O	PRO A	42154.809	13.143	-6.569	1.00	0.00	O
ATOM	584	CB	PRO A	42155.827	10.332	-5.257	1.00	0.00	C
ATOM	585	CG	PRO A	42154.804	9.291	-4.963	1.00	0.00	C

ATOM	586	CD	PRO A	42153.476	9.973	-5.113	1.00	0.00	C
ATOM	587	HA	PRO A	42155.585	11.847	-3.750	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.016	10.414	-6.318	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.751	10.134	-4.734	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.890	8.479	-5.669	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.927	8.927	-3.953	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.137	9.919	-6.137	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.747	9.536	-4.447	1.00	0.00	H
ATOM	594	N	PRO A	43156.753	13.407	-5.462	1.00	0.00	N
ATOM	595	CA	PRO A	43157.213	14.530	-6.284	1.00	0.00	C
ATOM	596	C	PRO A	43157.626	14.090	-7.683	1.00	0.00	C
ATOM	597	O	PRO A	43158.795	13.796	-7.932	1.00	0.00	O
ATOM	598	CB	PRO A	43158.423	15.058	-5.515	1.00	0.00	C
ATOM	599	CG	PRO A	43158.933	13.883	-4.755	1.00	0.00	C
ATOM	600	CD	PRO A	43157.726	13.053	-4.412	1.00	0.00	C
ATOM	601	HA	PRO A	43156.462	15.302	-6.357	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.160	15.428	-6.213	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.114	15.853	-4.853	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.615	13.316	-5.371	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.427	14.216	-3.854	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.968	12.001	-4.451	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.350	13.319	-3.435	1.00	0.00	H
ATOM	608	N	GLY A	44156.661	14.046	-8.594	1.00	0.00	N
ATOM	609	CA	GLY A	44156.948	13.641	-9.955	1.00	0.00	C
ATOM	610	C	GLY A	44155.719	13.142	-10.686	1.00	0.00	C
ATOM	611	O	GLY A	44155.429	13.581	-11.798	1.00	0.00	O
ATOM	612	H	GLY A	44155.746	14.291	-8.339	1.00	0.00	H

ATOM	613	1HA	GLY A	44157.353	14.485	-10.492	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.686	12.852	-9.937	1.00	0.00	H
ATOM	615	N	LEU A	45154.993	12.221	-10.061	1.00	0.00	N
ATOM	616	CA	LEU A	45153.788	11.663	-10.664	1.00	0.00	C
ATOM	617	C	LEU A	45152.574	11.905	-9.775	1.00	0.00	C
ATOM	618	O	LEU A	45152.479	11.353	-8.678	1.00	0.00	O
ATOM	619	CB	LEU A	45153.963	10.164	-10.912	1.00	0.00	C
ATOM	620	CG	LEU A	45154.528	9.373	-9.731	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.196	7.893	-9.869	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.033	9.581	-9.623	1.00	0.00	C
ATOM	623	H	LEU A	45155.274	11.910	-9.172	1.00	0.00	H
ATOM	624	HA	LEU A	45153.631	12.160	-11.609	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.999	9.749	-11.171	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.627	10.036	-11.753	1.00	0.00	H
ATOM	627	HG	LEU A	45154.074	9.733	-8.819	1.00	0.00	H
ATOM	628	1HD1	LEU A	45155.108	7.328	-9.994	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.559	7.745	-10.729	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.683	7.556	-8.980	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.520	8.626	-9.487	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.249	10.218	-8.778	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.399	10.046	-10.527	1.00	0.00	H
ATOM	634	N	ASN A	46151.645	12.727	-10.251	1.00	0.00	N
ATOM	635	CA	ASN A	46150.441	13.026	-9.488	1.00	0.00	C
ATOM	636	C	ASN A	46149.495	11.831	-9.497	1.00	0.00	C
ATOM	637	O	ASN A	46148.874	11.524	-10.514	1.00	0.00	O
ATOM	638	CB	ASN A	46149.739	14.255	-10.072	1.00	0.00	C
ATOM	639	CG	ASN A	46148.563	14.706	-9.230	1.00	0.00	C

ATOM	640	OD1	ASN A	46148.686	15.612	-8.405	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.412	14.076	-9.434	1.00	0.00	N
ATOM	642	H	ASN A	46151.772	13.136	-11.132	1.00	0.00	H
ATOM	643	HA	ASN A	46150.733	13.235	-8.470	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.446	15.069	-10.133	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.380	14.019	-11.063	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.388	13.364	-10.107	1.00	0.00	H
ATOM	647	2HD2	ASN A	46146.634	14.347	-8.904	1.00	0.00	H
ATOM	648	N	GLU A	47149.392	11.160	-8.355	1.00	0.00	N
ATOM	649	CA	GLU A	47148.524	9.997	-8.225	1.00	0.00	C
ATOM	650	C	GLU A	47148.343	9.616	-6.760	1.00	0.00	C
ATOM	651	O	GLU A	47149.314	9.320	-6.062	1.00	0.00	O
ATOM	652	CB	GLU A	47149.102	8.811	-9.002	1.00	0.00	C
ATOM	653	CG	GLU A	47150.614	8.691	-8.904	1.00	0.00	C
ATOM	654	CD	GLU A	47151.193	7.746	-9.937	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.247	8.126	-11.126	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.593	6.624	-9.558	1.00	0.00	O
ATOM	657	H	GLU A	47149.915	11.454	-7.580	1.00	0.00	H
ATOM	658	HA	GLU A	47147.562	10.254	-8.639	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.664	7.899	-8.623	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.839	8.918	-10.045	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.050	9.668	-9.048	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.871	8.326	-7.919	1.00	0.00	H
ATOM	663	N	VAL A	48147.098	9.615	-6.297	1.00	0.00	N
ATOM	664	CA	VAL A	48146.805	9.258	-4.915	1.00	0.00	C
ATOM	665	C	VAL A	48147.146	7.796	-4.656	1.00	0.00	C
ATOM	666	O	VAL A	48146.386	6.897	-5.018	1.00	0.00	O

ATOM	667	CB	VAL A	48145.323	9.499	-4.571	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.083	9.313	-3.081	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.890	10.887	-5.018	1.00	0.00	C
ATOM	670	H	VAL A	48146.361	9.852	-6.898	1.00	0.00	H
ATOM	671	HA	VAL A	48147.412	9.879	-4.272	1.00	0.00	H
ATOM	672	HB	VAL A	48144.727	8.771	-5.102	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.209	9.875	-2.784	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.942	9.666	-2.530	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.926	8.266	-2.869	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.750	11.539	-5.052	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.166	11.281	-4.321	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.447	10.826	-6.002	1.00	0.00	H
ATOM	679	N	LEU A	49148.295	7.563	-4.031	1.00	0.00	N
ATOM	680	CA	LEU A	49148.739	6.208	-3.730	1.00	0.00	C
ATOM	681	C	LEU A	49148.632	5.922	-2.238	1.00	0.00	C
ATOM	682	O	LEU A	49149.299	6.560	-1.424	1.00	0.00	O
ATOM	683	CB	LEU A	49150.182	6.006	-4.198	1.00	0.00	C
ATOM	684	CG	LEU A	49150.428	6.287	-5.680	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.849	6.781	-5.902	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.158	5.040	-6.509	1.00	0.00	C
ATOM	687	H	LEU A	49148.860	8.319	-3.769	1.00	0.00	H
ATOM	688	HA	LEU A	49148.099	5.522	-4.264	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.820	6.658	-3.618	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.464	4.984	-3.996	1.00	0.00	H
ATOM	691	HG	LEU A	49149.750	7.062	-6.010	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.547	6.036	-5.550	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.999	7.702	-5.358	1.00	0.00	H

ATOM	694	3HD1	LEU A	49152.009	6.954	-6.956	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.289	4.162	-5.893	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.848	5.003	-7.339	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.146	5.069	-6.884	1.00	0.00	H
ATOM	698	N	ALA A	50147.787	4.960	-1.886	1.00	0.00	N
ATOM	699	CA	ALA A	50147.594	4.594	-0.491	1.00	0.00	C
ATOM	700	C	ALA A	50148.531	3.460	-0.087	1.00	0.00	C
ATOM	701	O	ALA A	50148.422	2.343	-0.593	1.00	0.00	O
ATOM	702	CB	ALA A	50146.146	4.201	-0.243	1.00	0.00	C
ATOM	703	H	ALA A	50147.282	4.487	-2.581	1.00	0.00	H
ATOM	704	HA	ALA A	50147.815	5.463	0.111	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.605	5.046	0.156	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.110	3.384	0.464	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.693	3.891	-1.174	1.00	0.00	H
ATOM	708	N	GLY A	51149.450	3.755	0.827	1.00	0.00	N
ATOM	709	CA	GLY A	51150.391	2.748	1.282	1.00	0.00	C
ATOM	710	C	GLY A	51149.725	1.666	2.108	1.00	0.00	C
ATOM	711	O	GLY A	51149.237	1.926	3.208	1.00	0.00	O
ATOM	712	H	GLY A	51149.488	4.662	1.195	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.860	2.293	0.422	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.151	3.228	1.882	1.00	0.00	H
ATOM	715	N	LEU A	52149.706	0.446	1.578	1.00	0.00	N
ATOM	716	CA	LEU A	52149.094	-0.678	2.275	1.00	0.00	C
ATOM	717	C	LEU A	52150.156	-1.557	2.930	1.00	0.00	C
ATOM	718	O	LEU A	52151.144	-1.930	2.298	1.00	0.00	O
ATOM	719	CB	LEU A	52148.255	-1.510	1.303	1.00	0.00	C
ATOM	720	CG	LEU A	52147.027	-0.797	0.733	1.00	0.00	C

ATOM	721	CD1	LEU A	52146.656	-1.374	-0.623	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.856	-0.901	1.699	1.00	0.00	C
ATOM	723	H	LEU A	52150.112	0.301	0.699	1.00	0.00	H
ATOM	724	HA	LEU A	52148.449	-0.281	3.043	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.886	-1.809	0.479	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.920	-2.398	1.818	1.00	0.00	H
ATOM	727	HG	LEU A	52147.257	0.250	0.599	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.232	-0.597	-1.241	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.932	-2.164	-0.491	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.540	-1.772	-1.100	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.091	-0.194	1.415	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.195	-0.683	2.701	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.451	-1.902	1.665	1.00	0.00	H
ATOM	734	N	GLU A	53149.943	-1.883	4.200	1.00	0.00	N
ATOM	735	CA	GLU A	53150.879	-2.718	4.942	1.00	0.00	C
ATOM	736	C	GLU A	53150.370	-4.152	5.040	1.00	0.00	C
ATOM	737	O	GLU A	53149.391	-4.428	5.733	1.00	0.00	O
ATOM	738	CB	GLU A	53151.104	-2.147	6.344	1.00	0.00	C
ATOM	739	CG	GLU A	53152.097	-2.944	7.174	1.00	0.00	C
ATOM	740	CD	GLU A	53151.658	-3.099	8.617	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.533	-3.087	9.508	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.440	-3.234	8.856	1.00	0.00	O
ATOM	743	H	GLU A	53149.136	-1.555	4.650	1.00	0.00	H
ATOM	744	HA	GLU A	53151.818	-2.717	4.409	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.471	-1.135	6.254	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.160	-2.132	6.869	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.204	-3.926	6.738	1.00	0.00	H

ATOM	748	2HG	GLU A	53153.050	-2.436	7.156	1.00	0.00	H
ATOM	749	N	LEU A	54151.041	-5.061	4.341	1.00	0.00	N
ATOM	750	CA	LEU A	54150.656	-6.467	4.348	1.00	0.00	C
ATOM	751	C	LEU A	54150.899	-7.091	5.718	1.00	0.00	C
ATOM	752	O	LEU A	54151.876	-6.768	6.394	1.00	0.00	O
ATOM	753	CB	LEU A	54151.434	-7.236	3.279	1.00	0.00	C
ATOM	754	CG	LEU A	54151.427	-6.598	1.888	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.665	-7.009	1.107	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.165	-6.983	1.133	1.00	0.00	C
ATOM	757	H	LEU A	54151.813	-4.779	3.806	1.00	0.00	H
ATOM	758	HA	LEU A	54149.601	-6.523	4.122	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.460	-7.326	3.606	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.011	-8.226	3.197	1.00	0.00	H
ATOM	761	HG	LEU A	54151.440	-5.522	1.993	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.501	-7.113	1.783	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.893	-6.252	0.369	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.483	-7.950	0.611	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.389	-7.075	0.080	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.412	-6.221	1.276	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.796	-7.927	1.506	1.00	0.00	H
ATOM	768	N	GLU A	55150.004	-7.986	6.123	1.00	0.00	N
ATOM	769	CA	GLU A	55150.121	-8.655	7.413	1.00	0.00	C
ATOM	770	C	GLU A	55151.205	-9.727	7.374	1.00	0.00	C
ATOM	771	O	GLU A	55151.863	-9.996	8.379	1.00	0.00	O
ATOM	772	CB	GLU A	55148.783	-9.281	7.810	1.00	0.00	C
ATOM	773	CG	GLU A	55147.655	-8.271	7.941	1.00	0.00	C
ATOM	774	CD	GLU A	55147.697	-7.519	9.258	1.00	0.00	C

ATOM	775	OE1	GLU A	55147.737	-6.271	9.226	1.00	0.00	O
ATOM	776	OE2	GLU A	55147.688	-8.177	10.318	1.00	0.00	O
ATOM	777	H	GLU A	55149.246	-8.201	5.540	1.00	0.00	H
ATOM	778	HA	GLU A	55150.393	-7.912	8.148	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.502	-10.007	7.061	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.901	-9.783	8.759	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.730	-7.558	7.135	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.711	-8.794	7.873	1.00	0.00	H
ATOM	783	N	ASP A	56151.387	-10.336	6.207	1.00	0.00	N
ATOM	784	CA	ASP A	56152.392	-11.378	6.037	1.00	0.00	C
ATOM	785	C	ASP A	56153.662	-10.814	5.410	1.00	0.00	C
ATOM	786	O	ASP A	56153.605	-10.068	4.432	1.00	0.00	O
ATOM	787	CB	ASP A	56151.840	-12.511	5.169	1.00	0.00	C
ATOM	788	CG	ASP A	56152.436	-13.858	5.527	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.294	-14.350	4.764	1.00	0.00	O
ATOM	790	OD2	ASP A	56152.044	-14.421	6.570	1.00	0.00	O
ATOM	791	H	ASP A	56150.831	-10.078	5.442	1.00	0.00	H
ATOM	792	HA	ASP A	56152.631	-11.771	7.014	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.769	-12.566	5.297	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.063	-12.302	4.132	1.00	0.00	H
ATOM	795	N	GLU A	57154.808	-11.175	5.978	1.00	0.00	N
ATOM	796	CA	GLU A	57156.092	-10.704	5.475	1.00	0.00	C
ATOM	797	C	GLU A	57156.441	-11.384	4.155	1.00	0.00	C
ATOM	798	O	GLU A	57156.953	-12.504	4.137	1.00	0.00	O
ATOM	799	CB	GLU A	57157.194	-10.967	6.503	1.00	0.00	C
ATOM	800	CG	GLU A	57156.991	-10.226	7.815	1.00	0.00	C
ATOM	801	CD	GLU A	57157.319	-11.081	9.024	1.00	0.00	C

ATOM	802	OE1	GLU A	57158.151 -10.648	9.848	1.00	0.00	O
ATOM	803	OE2	GLU A	57156.742 -12.181	9.146	1.00	0.00	O
ATOM	804	H	GLU A	57154.788 -11.772	6.755	1.00	0.00	H
ATOM	805	HA	GLU A	57156.014 -9.640	5.309	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.229 -12.025	6.714	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.141 -10.661	6.085	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.631 -9.357	7.824	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.960 -9.914	7.880	1.00	0.00	H
ATOM	810	N	CYS A	58156.161 -10.700	3.051	1.00	0.00	N
ATOM	811	CA	CYS A	58156.444 -11.239	1.725	1.00	0.00	C
ATOM	812	C	CYS A	58157.694 -10.595	1.132	1.00	0.00	C
ATOM	813	O	CYS A	58157.820 -9.370	1.106	1.00	0.00	O
ATOM	814	CB	CYS A	58155.251 -11.016	0.795	1.00	0.00	C
ATOM	815	SG	CYS A	58154.052 -12.369	0.796	1.00	0.00	S
ATOM	816	H	CYS A	58155.753 -9.813	3.129	1.00	0.00	H
ATOM	817	HA	CYS A	58156.616 -12.300	1.829	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.732 -10.118	1.095	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.610 -10.895	-0.217	1.00	0.00	H
ATOM	820	HG	CYS A	58154.536 -13.194	0.873	1.00	0.00	H
ATOM	821	N	ALA A	59158.615 -11.427	0.659	1.00	0.00	N
ATOM	822	CA	ALA A	59159.854 -10.940	0.067	1.00	0.00	C
ATOM	823	C	ALA A	59159.574 -10.076	-1.158	1.00	0.00	C
ATOM	824	O	ALA A	59158.805 -10.461	-2.039	1.00	0.00	O
ATOM	825	CB	ALA A	59160.757 -12.107	-0.303	1.00	0.00	C
ATOM	826	H	ALA A	59158.457 -12.393	0.709	1.00	0.00	H
ATOM	827	HA	ALA A	59160.364 -10.341	0.807	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.408 -12.335	0.527	1.00	0.00	H

ATOM	829	2HB	ALA A	59161.351	-11.843	-1.165	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.152	-12.971	-0.534	1.00	0.00	H
ATOM	831	N	GLY A	60160.204	-8.906	-1.208	1.00	0.00	N
ATOM	832	CA	GLY A	60160.010	-8.006	-2.329	1.00	0.00	C
ATOM	833	C	GLY A	60159.225	-6.766	-1.949	1.00	0.00	C
ATOM	834	O	GLY A	60158.535	-6.180	-2.783	1.00	0.00	O
ATOM	835	H	GLY A	60160.804	-8.652	-0.477	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.975	-7.706	-2.707	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.477	-8.530	-3.110	1.00	0.00	H
ATOM	838	N	CYS A	61159.329	-6.366	-0.686	1.00	0.00	N
ATOM	839	CA	CYS A	61158.623	-5.188	-0.197	1.00	0.00	C
ATOM	840	C	CYS A	61159.522	-4.353	0.710	1.00	0.00	C
ATOM	841	O	CYS A	61160.429	-4.877	1.354	1.00	0.00	O
ATOM	842	CB	CYS A	61157.360	-5.602	0.561	1.00	0.00	C
ATOM	843	SG	CYS A	61156.284	-6.726	-0.360	1.00	0.00	S
ATOM	844	H	CYS A	61159.895	-6.875	-0.068	1.00	0.00	H
ATOM	845	HA	CYS A	61158.341	-4.592	-1.051	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.645	-6.098	1.477	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.786	-4.718	0.799	1.00	0.00	H
ATOM	848	HG	CYS A	61156.605	-6.771	-1.263	1.00	0.00	H
ATOM	849	N	THR A	62159.263	-3.050	0.752	1.00	0.00	N
ATOM	850	CA	THR A	62160.048	-2.141	1.580	1.00	0.00	C
ATOM	851	C	THR A	62159.462	-2.040	2.984	1.00	0.00	C
ATOM	852	O	THR A	62158.532	-2.766	3.333	1.00	0.00	O
ATOM	853	CB	THR A	62160.105	-0.754	0.938	1.00	0.00	C
ATOM	854	OG1	THR A	62158.834	-0.131	0.977	1.00	0.00	O
ATOM	855	CG2	THR A	62160.560	-0.781	-0.506	1.00	0.00	C

ATOM	856	H	THR A	62158.526	-2.691	0.215	1.00	0.00 H
ATOM	857	HA	THR A	62161.050	-2.538	1.648	1.00	0.00 H
ATOM	858	HB	THR A	62160.802	-0.141	1.492	1.00	0.00 H
ATOM	859	HG1	THR A	62158.197	-0.673	0.507	1.00	0.00 H
ATOM	860	1HG2	THR A	62160.960	0.185	-0.775	1.00	0.00 H
ATOM	861	2HG2	THR A	62159.718	-1.013	-1.143	1.00	0.00 H
ATOM	862	3HG2	THR A	62161.323	-1.535	-0.629	1.00	0.00 H
ATOM	863	N	ASP A	63160.015	-1.136	3.787	1.00	0.00 N
ATOM	864	CA	ASP A	63159.548	-0.940	5.154	1.00	0.00 C
ATOM	865	C	ASP A	63158.836	0.401	5.299	1.00	0.00 C
ATOM	866	O	ASP A	63158.879	1.026	6.359	1.00	0.00 O
ATOM	867	CB	ASP A	63160.722	-1.016	6.132	1.00	0.00 C
ATOM	868	CG	ASP A	63161.782	0.030	5.845	1.00	0.00 C
ATOM	869	OD1	ASP A	63161.485	1.233	6.000	1.00	0.00 O
ATOM	870	OD2	ASP A	63162.907	-0.355	5.466	1.00	0.00 O
ATOM	871	H	ASP A	63160.755	-0.588	3.452	1.00	0.00 H
ATOM	872	HA	ASP A	63158.850	-1.731	5.383	1.00	0.00 H
ATOM	873	1HB	ASP A	63160.356	-0.864	7.136	1.00	0.00 H
ATOM	874	2HB	ASP A	63161.177	-1.994	6.063	1.00	0.00 H
ATOM	875	N	GLY A	64158.182	0.836	4.227	1.00	0.00 N
ATOM	876	CA	GLY A	64157.471	2.101	4.255	1.00	0.00 C
ATOM	877	C	GLY A	64158.195	3.190	3.488	1.00	0.00 C
ATOM	878	O	GLY A	64158.313	4.319	3.964	1.00	0.00 O
ATOM	879	H	GLY A	64158.183	0.295	3.410	1.00	0.00 H
ATOM	880	1HA	GLY A	64156.492	1.960	3.823	1.00	0.00 H
ATOM	881	2HA	GLY A	64157.358	2.414	5.283	1.00	0.00 H
ATOM	882	N	THR A	65158.679	2.851	2.299	1.00	0.00 N

ATOM	883	CA	THR A	65159.394	3.809	1.464	1.00	0.00 C
ATOM	884	C	THR A	65159.012	3.644	-0.003	1.00	0.00 C
ATOM	885	O	THR A	65159.220	2.584	-0.594	1.00	0.00 O
ATOM	886	CB	THR A	65160.905	3.634	1.631	1.00	0.00 C
ATOM	887	OG1	THR A	65161.228	2.278	1.882	1.00	0.00 O
ATOM	888	CG2	THR A	65161.481	4.460	2.761	1.00	0.00 C
ATOM	889	H	THR A	65158.552	1.935	1.974	1.00	0.00 H
ATOM	890	HA	THR A	65159.118	4.801	1.786	1.00	0.00 H
ATOM	891	HB	THR A	65161.396	3.936	0.717	1.00	0.00 H
ATOM	892	HG1	THR A	65161.181	1.780	1.063	1.00	0.00 H
ATOM	893	1HG2	THR A	65161.444	5.507	2.496	1.00	0.00 H
ATOM	894	2HG2	THR A	65162.507	4.169	2.932	1.00	0.00 H
ATOM	895	3HG2	THR A	65160.905	4.296	3.658	1.00	0.00 H
ATOM	896	N	PHE A	66158.451	4.700	-0.585	1.00	0.00 N
ATOM	897	CA	PHE A	66158.039	4.672	-1.984	1.00	0.00 C
ATOM	898	C	PHE A	66158.944	5.556	-2.835	1.00	0.00 C
ATOM	899	O	PHE A	66159.022	6.768	-2.624	1.00	0.00 O
ATOM	900	CB	PHE A	66156.587	5.130	-2.118	1.00	0.00 C
ATOM	901	CG	PHE A	66155.983	4.831	-3.461	1.00	0.00 C
ATOM	902	CD1	PHE A	66155.558	5.857	-4.289	1.00	0.00 C
ATOM	903	CD2	PHE A	66155.843	3.522	-3.894	1.00	0.00 C
ATOM	904	CE1	PHE A	66155.003	5.583	-5.524	1.00	0.00 C
ATOM	905	CE2	PHE A	66155.289	3.242	-5.129	1.00	0.00 C
ATOM	906	CZ	PHE A	66154.869	4.274	-5.945	1.00	0.00 C
ATOM	907	H	PHE A	66158.311	5.516	-0.062	1.00	0.00 H
ATOM	908	HA	PHE A	66158.120	3.654	-2.333	1.00	0.00 H
ATOM	909	1HB	PHE A	66155.989	4.635	-1.368	1.00	0.00 H

ATOM	910	2HB	PHE A	66156.537	6.198	-1.962	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.663	6.881	-3.961	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.171	2.715	-3.257	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.675	6.392	-6.160	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.185	2.219	-5.455	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.436	4.059	-6.911	1.00	0.00	H
ATOM	916	N	ARG A	67159.627	4.944	-3.797	1.00	0.00	N
ATOM	917	CA	ARG A	67160.527	5.677	-4.680	1.00	0.00	C
ATOM	918	C	ARG A	67161.640	6.352	-3.884	1.00	0.00	C
ATOM	919	O	ARG A	67162.121	7.422	-4.257	1.00	0.00	O
ATOM	920	CB	ARG A	67159.750	6.723	-5.481	1.00	0.00	C
ATOM	921	CG	ARG A	67158.753	6.124	-6.459	1.00	0.00	C
ATOM	922	CD	ARG A	67159.346	5.998	-7.853	1.00	0.00	C
ATOM	923	NE	ARG A	67160.017	4.715	-8.049	1.00	0.00	N
ATOM	924	CZ	ARG A	67160.796	4.438	-9.092	1.00	0.00	C
ATOM	925	NH1	ARG A	67161.005	5.349	-10.034	1.00	0.00	N
ATOM	926	NH2	ARG A	67161.368	3.247	-9.193	1.00	0.00	N
ATOM	927	H	ARG A	67159.522	3.978	-3.915	1.00	0.00	H
ATOM	928	HA	ARG A	67160.969	4.969	-5.364	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.211	7.358	-4.794	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.451	7.326	-6.039	1.00	0.00	H
ATOM	931	1HG	ARG A	67158.467	5.143	-6.111	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.881	6.759	-6.504	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.552	6.092	-8.578	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.060	6.794	-7.998	1.00	0.00	H
ATOM	935	HE	ARG A	67159.880	4.024	-7.368	1.00	0.00	H
ATOM	936	1HH1	ARG A	67160.577	6.251	-9.963	1.00	0.00	H

ATOM	937	2HH1	ARG A	67161.592	5.135	-10.814	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.215	2.556	-8.485	1.00	0.00	H
ATOM	939	2HH2	ARG A	67161.954	3.039	-9.976	1.00	0.00	H
ATOM	940	N	GLY A	68162.043	5.720	-2.787	1.00	0.00	N
ATOM	941	CA	GLY A	68163.095	6.274	-1.957	1.00	0.00	C
ATOM	942	C	GLY A	68162.613	7.431	-1.105	1.00	0.00	C
ATOM	943	O	GLY A	68163.389	8.322	-0.761	1.00	0.00	O
ATOM	944	H	GLY A	68161.623	4.869	-2.540	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.474	5.498	-1.309	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.897	6.619	-2.594	1.00	0.00	H
ATOM	947	N	THR A	69161.329	7.417	-0.764	1.00	0.00	N
ATOM	948	CA	THR A	69160.744	8.474	0.054	1.00	0.00	C
ATOM	949	C	THR A	69159.926	7.886	1.199	1.00	0.00	C
ATOM	950	O	THR A	69158.814	7.398	0.995	1.00	0.00	O
ATOM	951	CB	THR A	69159.861	9.382	-0.805	1.00	0.00	C
ATOM	952	OG1	THR A	69160.594	9.906	-1.897	1.00	0.00	O
ATOM	953	CG2	THR A	69159.281	10.550	-0.039	1.00	0.00	C
ATOM	954	H	THR A	69160.760	6.679	-1.068	1.00	0.00	H
ATOM	955	HA	THR A	69161.551	9.059	0.467	1.00	0.00	H
ATOM	956	HB	THR A	69159.039	8.801	-1.197	1.00	0.00	H
ATOM	957	HG1	THR A	69160.330	9.460	-2.705	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.658	10.540	0.973	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.203	10.469	-0.021	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.564	11.474	-0.520	1.00	0.00	H
ATOM	961	N	ARG A	70160.483	7.936	2.404	1.00	0.00	N
ATOM	962	CA	ARG A	70159.806	7.408	3.583	1.00	0.00	C
ATOM	963	C	ARG A	70158.531	8.193	3.874	1.00	0.00	C

ATOM	964	O	ARG A	70158.548	9.423	3.934	1.00	0.00	O
ATOM	965	CB	ARG A	70160.736	7.455	4.796	1.00	0.00	C
ATOM	966	CG	ARG A	70160.242	6.630	5.973	1.00	0.00	C
ATOM	967	CD	ARG A	70160.624	7.265	7.300	1.00	0.00	C
ATOM	968	NE	ARG A	70161.094	6.275	8.267	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.219	6.514	9.571	1.00	0.00	C
ATOM	970	NH1	ARG A	70160.912	7.705	10.068	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.653	5.557	10.380	1.00	0.00	N
ATOM	972	H	ARG A	70161.372	8.337	2.503	1.00	0.00	H
ATOM	973	HA	ARG A	70159.543	6.381	3.381	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.708	7.082	4.505	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.836	8.481	5.120	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.167	6.551	5.919	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.679	5.643	5.917	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.410	7.986	7.127	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.758	7.768	7.706	1.00	0.00	H
ATOM	980	HE	ARG A	70161.327	5.387	7.926	1.00	0.00	H
ATOM	981	1HH1	ARG A	70160.584	8.431	9.462	1.00	0.00	H
ATOM	982	2HH1	ARG A	70161.008	7.878	11.047	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.885	4.657	10.010	1.00	0.00	H
ATOM	984	2HH2	ARG A	70161.747	5.736	11.359	1.00	0.00	H
ATOM	985	N	TYR A	71157.428	7.475	4.055	1.00	0.00	N
ATOM	986	CA	TYR A	71156.143	8.104	4.341	1.00	0.00	C
ATOM	987	C	TYR A	71155.676	7.769	5.753	1.00	0.00	C
ATOM	988	O	TYR A	71155.095	8.609	6.442	1.00	0.00	O
ATOM	989	CB	TYR A	71155.094	7.653	3.323	1.00	0.00	C
ATOM	990	CG	TYR A	71155.205	8.353	1.988	1.00	0.00	C

ATOM	991	CD1 TYR A	71155.177	7.632	0.800	1.00	0.00	C
ATOM	992	CD2 TYR A	71155.339	9.734	1.914	1.00	0.00	C
ATOM	993	CE1 TYR A	71155.278	8.268	-0.423	1.00	0.00	C
ATOM	994	CE2 TYR A	71155.441	10.377	0.695	1.00	0.00	C
ATOM	995	CZ TYR A	71155.411	9.640	-0.470	1.00	0.00	C
ATOM	996	OH TYR A	71155.512	10.275	-1.686	1.00	0.00	O
ATOM	997	H TYR A	71157.479	6.498	3.995	1.00	0.00	H
ATOM	998	HA TYR A	71156.273	9.173	4.262	1.00	0.00	H
ATOM	999	1HB TYR A	71155.201	6.592	3.152	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.110	7.850	3.722	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.073	6.557	0.841	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.364	10.308	2.828	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.254	7.690	-1.334	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.544	11.451	0.658	1.00	0.00	H
ATOM	1005	HH TYR A	71156.163	9.826	-2.229	1.00	0.00	H
ATOM	1006	N PHE A	72155.934	6.537	6.179	1.00	0.00	N
ATOM	1007	CA PHE A	72155.539	6.091	7.510	1.00	0.00	C
ATOM	1008	C PHE A	72156.482	5.006	8.022	1.00	0.00	C
ATOM	1009	O PHE A	72157.345	4.523	7.289	1.00	0.00	O
ATOM	1010	CB PHE A	72154.103	5.567	7.490	1.00	0.00	C
ATOM	1011	CG PHE A	72153.868	4.498	6.462	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.547	4.833	5.156	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.968	3.158	6.801	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.330	3.851	4.208	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.754	2.172	5.857	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.434	2.519	4.558	1.00	0.00	C
ATOM	1017	H PHE A	72156.400	5.914	5.585	1.00	0.00	H

ATOM	1018	HA	PHE A	72155.595	6.941	8.175	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.864	5.154	8.459	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.432	6.387	7.279	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.466	5.873	4.881	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.218	2.885	7.816	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.081	4.126	3.193	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.834	1.131	6.134	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.265	1.750	3.819	1.00	0.00	H
ATOM	1026	N	THR A	73156.310	4.627	9.284	1.00	0.00	N
ATOM	1027	CA	THR A	73157.144	3.598	9.894	1.00	0.00	C
ATOM	1028	C	THR A	73156.363	2.300	10.076	1.00	0.00	C
ATOM	1029	O	THR A	73155.378	2.255	10.814	1.00	0.00	O
ATOM	1030	CB	THR A	73157.676	4.079	11.244	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.557	3.122	11.805	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.585	4.347	12.257	1.00	0.00	C
ATOM	1033	H	THR A	73155.604	5.048	9.817	1.00	0.00	H
ATOM	1034	HA	THR A	73157.977	3.413	9.234	1.00	0.00	H
ATOM	1035	HB	THR A	73158.225	4.999	11.097	1.00	0.00	H
ATOM	1036	HG1	THR A	73159.290	3.572	12.232	1.00	0.00	H
ATOM	1037	1HG2	THR A	73155.818	4.960	11.806	1.00	0.00	H
ATOM	1038	2HG2	THR A	73157.003	4.864	13.109	1.00	0.00	H
ATOM	1039	3HG2	THR A	73156.155	3.411	12.579	1.00	0.00	H
ATOM	1040	N	CYS A	74156.808	1.248	9.397	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.151	-0.051	9.484	1.00	0.00	C
ATOM	1042	C	CYS A	74157.172	-1.183	9.428	1.00	0.00	C
ATOM	1043	O	CYS A	74158.352	-0.954	9.162	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.136	-0.209	8.350	1.00	0.00	C

ATOM	1045	SG	CYS A	74153.487	0.420	8.742	1.00	0.00	S
ATOM	1046	H	CYS A	74157.598	1.347	8.825	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.631	-0.098	10.428	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.492	0.325	7.481	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.040	-1.257	8.106	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.229	1.028	8.045	1.00	0.00	H
ATOM	1051	N	ALA A	75156.710	-2.403	9.681	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.584	-3.569	9.660	1.00	0.00	C
ATOM	1053	C	ALA A	75158.224	-3.751	8.288	1.00	0.00	C
ATOM	1054	O	ALA A	75157.663	-3.341	7.273	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.806	-4.818	10.052	1.00	0.00	C
ATOM	1056	H	ALA A	75155.759	-2.521	9.887	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.363	-3.415	10.393	1.00	0.00	H
ATOM	1058	1HB	ALA A	75155.812	-4.769	9.629	1.00	0.00	H
ATOM	1059	2HB	ALA A	75156.737	-4.876	11.129	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.315	-5.692	9.676	1.00	0.00	H
ATOM	1061	N	LEU A	76159.400	-4.369	8.267	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.116	-4.605	7.019	1.00	0.00	C
ATOM	1063	C	LEU A	76159.404	-5.656	6.173	1.00	0.00	C
ATOM	1064	O	LEU A	76158.806	-6.592	6.703	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.551	-5.051	7.306	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.480	-3.949	7.822	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.577	-3.998	9.339	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.860	-4.078	7.193	1.00	0.00	C
ATOM	1069	H	LEU A	76159.796	-4.673	9.110	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.141	-3.675	6.471	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.519	-5.841	8.043	1.00	0.00	H

ATOM	1072	2HB	LEU A	76161.971	-5.449	6.395	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.074	-2.987	7.546	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76161.684	-4.453	9.742	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.675	-2.995	9.726	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.440	-4.581	9.626	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.358	-3.120	7.222	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.759	-4.400	6.168	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.440	-4.803	7.744	1.00	0.00	H
ATOM	1080	N	LYS A	77159.475	-5.494	4.856	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.837	-6.429	3.936	1.00	0.00	C
ATOM	1082	C	LYS A	77157.331	-6.480	4.169	1.00	0.00	C
ATOM	1083	O	LYS A	77156.703	-7.527	4.009	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.437	-7.827	4.100	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.946	-7.866	3.923	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.343	-7.627	2.475	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.607	-6.788	2.375	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.874	-6.352	0.977	1.00	0.00	N
ATOM	1089	H	LYS A	77159.967	-4.727	4.494	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.023	-6.083	2.930	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.203	-8.193	5.088	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.993	-8.485	3.366	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.391	-7.097	4.538	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.311	-8.833	4.233	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.518	-8.581	1.999	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.539	-7.113	1.970	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.493	-5.914	2.998	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.442	-7.374	2.727	1.00	0.00	H

ATOM	1099	1HZ	LYS A	77163.899	-6.279	0.814	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.441	-5.423	0.801	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.476	-7.040	0.305	1.00	0.00	H
ATOM	1102	N	LYS A	78156.757	-5.342	4.546	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.323	-5.258	4.800	1.00	0.00	C
ATOM	1104	C	LYS A	78154.792	-3.866	4.468	1.00	0.00	C
ATOM	1105	O	LYS A	78153.921	-3.341	5.162	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.023	-5.595	6.262	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.524	-6.966	6.685	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.150	-7.275	8.127	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.909	-8.149	8.207	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.946	-7.653	9.229	1.00	0.00	N
ATOM	1111	H	LYS A	78157.311	-4.541	4.656	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.831	-5.979	4.166	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.490	-4.854	6.895	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.954	-5.563	6.415	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.084	-7.714	6.042	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.599	-6.991	6.588	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.972	-7.791	8.599	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.961	-6.346	8.646	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.423	-8.155	7.242	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.208	-9.154	8.464	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.270	-8.405	9.478	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.418	-6.837	8.858	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.454	-7.362	10.088	1.00	0.00	H
ATOM	1124	N	ALAA	79155.321	-3.276	3.401	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.901	-1.947	2.977	1.00	0.00	C

ATOM	1126	C	ALA A	79154.814	-1.858	1.457	1.00	0.00	C
ATOM	1127	O	ALA A	79155.824	-1.679	0.777	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.856	-0.893	3.515	1.00	0.00	C
ATOM	1129	H	ALA A	79156.012	-3.745	2.888	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.922	-1.758	3.394	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.921	-0.074	2.815	1.00	0.00	H
ATOM	1132	2HB	ALA A	79156.835	-1.331	3.650	1.00	0.00	H
ATOM	1133	3HB	ALA A	79155.492	-0.528	4.463	1.00	0.00	H
ATOM	1134	N	LEU A	80153.601	-1.984	0.930	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.381	-1.919	-0.510	1.00	0.00	C
ATOM	1136	C	LEU A	80152.458	-0.758	-0.866	1.00	0.00	C
ATOM	1137	O	LEU A	80151.333	-0.672	-0.372	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.787	-3.233	-1.018	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.459	-3.263	-2.512	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.730	-3.149	-3.339	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.702	-4.534	-2.865	1.00	0.00	C
ATOM	1142	H	LEU A	80152.834	-2.126	1.523	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.339	-1.760	-0.985	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.491	-4.026	-0.809	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.878	-3.429	-0.470	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.829	-2.419	-2.751	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80154.565	-3.536	-2.772	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.910	-2.113	-3.583	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.619	-3.719	-4.249	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80152.069	-5.352	-2.262	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.850	-4.763	-3.910	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.649	-4.391	-2.674	1.00	0.00	H

ATOM	1153	N	PHE A	81152.939	0.132	-1.728	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.156	1.287	-2.150	1.00	0.00	C
ATOM	1155	C	PHE A	81151.387	0.985	-3.432	1.00	0.00	C
ATOM	1156	O	PHE A	81151.895	0.312	-4.329	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.068	2.498	-2.364	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.656	3.037	-1.091	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.026	4.061	-0.401	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.838	2.522	-0.585	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.565	4.559	0.770	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.382	3.016	0.585	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.744	4.036	1.263	1.00	0.00	C
ATOM	1164	H	PHE A	81153.842	0.009	-2.087	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.450	1.514	-1.366	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.883	2.215	-3.012	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.500	3.289	-2.830	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.103	4.470	-0.786	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.338	1.724	-1.115	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.064	5.357	1.299	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.305	2.606	0.969	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.167	4.425	2.178	1.00	0.00	H
ATOM	1173	N	VAL A	82150.158	1.486	-3.511	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.319	1.270	-4.683	1.00	0.00	C
ATOM	1175	C	VAL A	82148.378	2.449	-4.910	1.00	0.00	C
ATOM	1176	O	VAL A	82148.205	3.295	-4.033	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.486	-0.018	-4.549	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.382	-1.245	-4.630	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.696	-0.010	-3.249	1.00	0.00	C

ATOM	1180	H	VAL A	82149.809	2.016	-2.764	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.966	1.168	-5.542	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.786	-0.057	-5.371	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.273	-1.004	-5.191	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.851	-2.045	-5.123	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.658	-1.555	-3.633	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.479	-1.027	-2.954	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.771	0.528	-3.394	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.277	0.472	-2.478	1.00	0.00	H
ATOM	1189	N	LYS A	83147.774	2.498	-6.092	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.851	3.573	-6.434	1.00	0.00	C
ATOM	1191	C	LYS A	83145.578	3.488	-5.598	1.00	0.00	C
ATOM	1192	O	LYS A	83144.863	2.486	-5.636	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.501	3.519	-7.922	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.710	3.631	-8.836	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.400	3.123	-10.234	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.095	3.959	-11.298	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.618	3.119	-12.410	1.00	0.00	N
ATOM	1198	H	LYS A	83147.952	1.794	-6.750	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.342	4.511	-6.223	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.005	2.582	-8.129	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.826	4.330	-8.152	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.008	4.667	-8.897	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.518	3.045	-8.421	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.736	2.101	-10.319	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.333	3.168	-10.394	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.388	4.670	-11.697	1.00	0.00	H

ATOM	1207	2HE	LYS A	83148.918	4.488	-10.841	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.764	3.702	-13.259	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.940	2.363	-12.637	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.524	2.687	-12.138	1.00	0.00	H
ATOM	1211	N	LEU A	84145.303	4.546	-4.844	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.118	4.598	-3.998	1.00	0.00	C
ATOM	1213	C	LEU A	84142.847	4.449	-4.831	1.00	0.00	C
ATOM	1214	O	LEU A	84141.831	3.947	-4.347	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.082	5.914	-3.220	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.827	6.134	-2.372	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.903	5.324	-1.087	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.648	7.612	-2.060	1.00	0.00	C
ATOM	1219	H	LEU A	84145.912	5.313	-4.859	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.174	3.777	-3.299	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.942	5.945	-2.568	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.158	6.727	-3.927	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.962	5.801	-2.926	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.054	5.558	-0.463	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.814	5.566	-0.561	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.894	4.270	-1.326	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.640	7.788	-1.719	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.833	8.193	-2.953	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.346	7.905	-1.290	1.00	0.00	H
ATOM	1230	N	LYS A	85142.909	4.888	-6.084	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.764	4.804	-6.981	1.00	0.00	C
ATOM	1232	C	LYS A	85141.386	3.349	-7.248	1.00	0.00	C
ATOM	1233	O	LYS A	85140.226	3.039	-7.520	1.00	0.00	O

ATOM	1234	CB	LYS A	85142.070	5.513	-8.301	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.200	4.870	-9.089	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.065	5.915	-9.778	1.00	0.00	C
ATOM	1237	CE	LYS A	85143.422	6.411	-11.063	1.00	0.00	C
ATOM	1238	NZ	LYS A	85142.575	7.613	-10.832	1.00	0.00	N
ATOM	1239	H	LYS A	85143.746	5.280	-6.412	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.931	5.297	-6.503	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.182	5.506	-8.915	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.343	6.537	-8.092	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.817	4.297	-8.414	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.777	4.216	-9.837	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.203	6.751	-9.110	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.024	5.476	-10.011	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.201	6.660	-11.767	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.808	5.621	-11.471	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85142.885	8.109	-9.971	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85141.580	7.333	-10.719	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85142.651	8.264	-11.640	1.00	0.00	H
ATOM	1252	N	SER A	86142.372	2.461	-7.169	1.00	0.00	N
ATOM	1253	CA	SER A	86142.140	1.041	-7.401	1.00	0.00	C
ATOM	1254	C	SER A	86142.076	0.279	-6.082	1.00	0.00	C
ATOM	1255	O	SER A	86142.459	-0.889	-6.009	1.00	0.00	O
ATOM	1256	CB	SER A	86143.244	0.460	-8.286	1.00	0.00	C
ATOM	1257	OG	SER A	86143.251	1.075	-9.563	1.00	0.00	O
ATOM	1258	H	SER A	86143.276	2.768	-6.949	1.00	0.00	H
ATOM	1259	HA	SER A	86141.192	0.938	-7.909	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.203	0.624	-7.818	1.00	0.00	H

ATOM	1261	2HB	SER A	86143.083	-0.600	-8.412	1.00	0.00	H
ATOM	1262	HG	SER A	86143.520	1.993	-9.476	1.00	0.00	H
ATOM	1263	N	CYS A	87141.591	0.947	-5.041	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.476	0.334	-3.724	1.00	0.00	C
ATOM	1265	C	CYS A	87140.014	0.185	-3.316	1.00	0.00	C
ATOM	1266	O	CYS A	87139.142	0.887	-3.829	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.225	1.168	-2.683	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.995	0.811	-2.585	1.00	0.00	S
ATOM	1269	H	CYS A	87141.303	1.875	-5.162	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.925	-0.648	-3.775	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.116	2.214	-2.924	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.799	0.982	-1.709	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.472	1.629	-2.742	1.00	0.00	H
ATOM	1274	N	ARG A	88139.754	-0.733	-2.391	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.397	-0.975	-1.913	1.00	0.00	C
ATOM	1276	C	ARG A	88138.388	-1.224	-0.407	1.00	0.00	C
ATOM	1277	O	ARG A	88139.319	-1.819	0.136	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.782	-2.170	-2.644	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.419	-1.877	-4.091	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.061	-2.455	-4.455	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.481	-1.796	-5.623	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.188	-1.848	-5.938	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.340	-2.527	-5.177	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.744	-1.218	-7.018	1.00	0.00	N
ATOM	1285	H	ARG A	88140.492	-1.261	-2.021	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.811	-0.094	-2.125	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.489	-2.988	-2.630	1.00	0.00	H

ATOM	1288	2HB	ARG A	88136.885	-2.472	-2.124	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.394	-0.808	-4.236	1.00	0.00	H
ATOM	1290	2HG	ARG A	88138.170	-2.311	-4.735	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.178	-3.507	-4.669	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.395	-2.330	-3.615	1.00	0.00	H
ATOM	1293	HE	ARG A	88136.086	-1.287	-6.203	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.668	-3.003	-4.362	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.370	-2.561	-5.420	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.380	-0.706	-7.595	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88132.773	-1.258	-7.255	1.00	0.00	H
ATOM	1298	N	PRO A	89137.332	-0.771	0.291	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.213	-0.952	1.738	1.00	0.00	C
ATOM	1300	C	PRO A	89137.019	-2.414	2.122	1.00	0.00	C
ATOM	1301	O	PRO A	89135.964	-2.997	1.875	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.976	-0.131	2.110	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.191	0.000	0.853	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.177	-0.054	-0.277	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.077	-0.559	2.256	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.413	-0.656	2.863	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.280	0.833	2.488	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.489	-0.817	0.775	1.00	0.00	H
ATOM	1309	2HG	PRO A	89134.667	0.944	0.848	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.759	-0.602	-1.102	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.454	0.943	-0.584	1.00	0.00	H
ATOM	1312	N	ASP A	90138.046	-3.002	2.728	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.991	-4.398	3.146	1.00	0.00	C
ATOM	1314	C	ASP A	90136.953	-4.597	4.246	1.00	0.00	C

ATOM	1315	O	ASP A	90136.925	-3.855	5.229	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.365	-4.859	3.636	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.557	-6.357	3.498	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.548	-7.070	3.315	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.715	-6.816	3.574	1.00	0.00	O
ATOM	1320	H	ASP A	90138.860	-2.485	2.896	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.707	-4.990	2.289	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.130	-4.363	3.058	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.476	-4.594	4.677	1.00	0.00	H
ATOM	1324	N	SER A	91136.104	-5.605	4.075	1.00	0.00	N
ATOM	1325	CA	SER A	91135.067	-5.904	5.055	1.00	0.00	C
ATOM	1326	C	SER A	91135.483	-7.067	5.950	1.00	0.00	C
ATOM	1327	O	SER A	91134.642	-7.823	6.432	1.00	0.00	O
ATOM	1328	CB	SER A	91133.751	-6.236	4.348	1.00	0.00	C
ATOM	1329	OG	SER A	91132.638	-5.866	5.143	1.00	0.00	O
ATOM	1330	H	SER A	91136.179	-6.161	3.272	1.00	0.00	H
ATOM	1331	HA	SER A	91134.925	-5.026	5.666	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.702	-5.700	3.412	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.705	-7.298	4.158	1.00	0.00	H
ATOM	1334	HG	SER A	91132.199	-6.656	5.468	1.00	0.00	H
ATOM	1335	N	ARG A	92136.788	-7.202	6.165	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.316	-8.274	7.002	1.00	0.00	C
ATOM	1337	C	ARG A	92136.883	-8.095	8.454	1.00	0.00	C
ATOM	1338	O	ARG A	92136.702	-9.071	9.181	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.843	-8.311	6.914	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.364	-8.969	5.645	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.907	-10.361	5.921	1.00	0.00	C

ATOM	1342	NE	ARG A	92138.927	-11.208	6.599	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.080	-12.516	6.786	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.171	-13.134	6.348	1.00	0.00	N
ATOM	1345	NH2	ARG A	92138.140	-13.211	7.412	1.00	0.00	N
ATOM	1346	H	ARG A	92137.410	-6.568	5.753	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.920	-9.207	6.633	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.219	-7.299	6.949	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.227	-8.857	7.763	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.556	-9.044	4.933	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.154	-8.359	5.234	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.176	-10.822	4.982	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.786	-10.275	6.544	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.112	-10.778	6.933	1.00	0.00	H
ATOM	1355.1	HH1	ARG A	92140.883	-12.616	5.875	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.280	-14.117	6.492	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92137.317	-12.751	7.744	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92138.255	-14.194	7.552	1.00	0.00	H
ATOM	1359	N	PHE A	93136.721	-6.843	8.869	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.309	-6.537	10.234	1.00	0.00	C
ATOM	1361	C	PHE A	93135.024	-5.717	10.246	1.00	0.00	C
ATOM	1362	O	PHE A	93134.798	-4.915	11.153	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.419	-5.780	10.965	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.691	-6.567	11.107	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.159	-6.934	12.357	1.00	0.00	C
ATOM	1366	CD2	PHE A	93139.419	-6.937	9.987	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.328	-7.658	12.491	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.589	-7.662	10.113	1.00	0.00	C

ATOM	1369	CZ	PHE A	93141.045	-8.022	11.366	1.00	0.00	C
ATOM	1370	H	PHE A	93136.881	-6.107	8.242	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.129	-7.473	10.743	1.00	0.00	H
ATOM	1372	1HB	PHE A	93137.646	-4.876	10.422	1.00	0.00	H
ATOM	1373	2HB	PHE A	93137.075	-5.521	11.957	1.00	0.00	H
ATOM	1374	HD1	PHE A	93138.599	-6.651	13.237	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.063	-6.656	9.007	1.00	0.00	H
ATOM	1376	HE1	PHE A	93140.683	-7.938	13.471	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.148	-7.944	9.233	1.00	0.00	H
ATOM	1378	HZ	PHE A	93141.960	-8.587	11.468	1.00	0.00	H
ATOM	1379	N	ALA A	94134.184	-5.920	9.236	1.00	0.00	N
ATOM	1380	CA	ALA A	94132.923	-5.199	9.134	1.00	0.00	C
ATOM	1381	C	ALA A	94131.753	-6.073	9.572	1.00	0.00	C
ATOM	1382	O	ALA A	94131.540	-7.160	9.032	1.00	0.00	O
ATOM	1383	CB	ALA A	94132.711	-4.704	7.711	1.00	0.00	C
ATOM	1384	H	ALA A	94134.420	-6.574	8.543	1.00	0.00	H
ATOM	1385	HA	ALA A	94132.978	-4.337	9.784	1.00	0.00	H
ATOM	1386	1HB	ALA A	94131.982	-5.329	7.216	1.00	0.00	H
ATOM	1387	2HB	ALA A	94133.646	-4.747	7.172	1.00	0.00	H
ATOM	1388	3HB	ALA A	94132.356	-3.685	7.733	1.00	0.00	H
ATOM	1389	N	SER A	95130.997	-5.593	10.554	1.00	0.00	N
ATOM	1390	CA	SER A	95129.848	-6.330	11.065	1.00	0.00	C
ATOM	1391	C	SER A	95128.542	-5.657	10.654	1.00	0.00	C
ATOM	1392	O	SER A	95128.403	-4.437	10.754	1.00	0.00	O
ATOM	1393	CB	SER A	95129.923	-6.440	12.589	1.00	0.00	C
ATOM	1394	OG	SER A	95129.179	-7.551	13.058	1.00	0.00	O
ATOM	1395	H	SER A	95131.217	-4.721	10.944	1.00	0.00	H

ATOM	1396	HA	SER A	95129.876	-7.323	10.640	1.00	0.00	H
ATOM	1397	1HB	SER A	95130.952	-6.560	12.890	1.00	0.00	H
ATOM	1398	2HB	SER A	95129.521	-5.540	13.032	1.00	0.00	H
ATOM	1399	HG	SER A	95129.777	-8.270	13.272	1.00	0.00	H
ATOM	1400	N	LEU A	96127.587	-6.458	10.194	1.00	0.00	N
ATOM	1401	CA	LEU A	96126.294	-5.939	9.768	1.00	0.00	C
ATOM	1402	C	LEU A	96125.251	-6.107	10.868	1.00	0.00	C
ATOM	1403	O	LEU A	96124.066	-6.293	10.592	1.00	0.00	O
ATOM	1404	CB	LEU A	96125.829	-6.650	8.496	1.00	0.00	C
ATOM	1405	CG	LEU A	96126.512	-6.187	7.209	1.00	0.00	C
ATOM	1406	CD1	LEU A	96126.653	-7.345	6.233	1.00	0.00	C
ATOM	1407	CD2	LEU A	96125.735	-5.043	6.575	1.00	0.00	C
ATOM	1408	H	LEU A	96127.758	-7.421	10.138	1.00	0.00	H
ATOM	1409	HA	LEU A	96126.412	-4.886	9.559	1.00	0.00	H
ATOM	1410	1HB	LEU A	96126.008	-7.709	8.615	1.00	0.00	H
ATOM	1411	2HB	LEU A	96124.766	-6.492	8.388	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.504	-5.828	7.445	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96125.687	-7.802	6.075	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96127.337	-8.076	6.637	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.035	-6.977	5.292	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96125.827	-5.098	5.500	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.132	-4.102	6.923	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96124.693	-5.120	6.850	1.00	0.00	H
ATOM	1419	N	GLN A	97125.700	-6.037	12.116	1.00	0.00	N
ATOM	1420	CA	GLN A	97124.806	-6.180	13.260	1.00	0.00	C
ATOM	1421	C	GLN A	97125.447	-5.618	14.528	1.00	0.00	C
ATOM	1422	O	GLN A	97125.540	-6.305	15.546	1.00	0.00	O

ATOM	1423	CB	GLN A	97124.440	-7.652	13.466	1.00	0.00	C
ATOM	1424	CG	GLN A	97123.317	-7.864	14.467	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.167	-9.317	14.876	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.698	-10.148	14.099	1.00	0.00	O
ATOM	1427	NE2	GLN A	97123.569	-9.630	16.103	1.00	0.00	N
ATOM	1428	H	GLN A	97126.656	-5.886	12.274	1.00	0.00	H
ATOM	1429	HA	GLN A	97123.907	-5.622	13.049	1.00	0.00	H
ATOM	1430	1HB	GLN A	97124.134	-8.070	12.518	1.00	0.00	H
ATOM	1431	2HB	GLN A	97125.313	-8.182	13.818	1.00	0.00	H
ATOM	1432	1HG	GLN A	97123.522	-7.277	15.349	1.00	0.00	H
ATOM	1433	2HG	GLN A	97122.389	-7.534	14.024	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97123.933	-8.917	16.667	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97123.484	-10.562	16.393	1.00	0.00	H
ATOM	1436	N	PRO A	98125.900	-4.353	14.483	1.00	0.00	N
ATOM	1437	CA	PRO A	98126.534	-3.700	15.632	1.00	0.00	C
ATOM	1438	C	PRO A	98125.534	-3.370	16.735	1.00	0.00	C
ATOM	1439	O	PRO A	98124.728	-2.449	16.600	1.00	0.00	O
ATOM	1440	CB	PRO A	98127.113	-2.416	15.035	1.00	0.00	C
ATOM	1441	CG	PRO A	98126.248	-2.125	13.858	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.829	-3.460	13.309	1.00	0.00	C
ATOM	1443	HA	PRO A	98127.332	-4.303	16.039	1.00	0.00	H
ATOM	1444	1HB	PRO A	98127.067	-1.623	15.767	1.00	0.00	H
ATOM	1445	2HB	PRO A	98128.138	-2.583	14.739	1.00	0.00	H
ATOM	1446	1HG	PRO A	98125.382	-1.559	14.170	1.00	0.00	H
ATOM	1447	2HG	PRO A	98126.809	-1.575	13.117	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.821	-3.411	12.924	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.514	-3.784	12.538	1.00	0.00	H

ATOM	1450	N	SER A	99125.590	-4.129	17.825	1.00	0.00	N
ATOM	1451	CA	SER A	99124.688	-3.917	18.950	1.00	0.00	C
ATOM	1452	C	SER A	99125.020	-4.862	20.100	1.00	0.00	C
ATOM	1453	O	SER A	99124.804	-6.071	20.005	1.00	0.00	O
ATOM	1454	CB	SER A	99123.236	-4.118	18.513	1.00	0.00	C
ATOM	1455	OG	SER A	99122.378	-3.188	19.148	1.00	0.00	O
ATOM	1456	H	SER A	99126.255	-4.849	17.872	1.00	0.00	H
ATOM	1457	HA	SER A	99124.815	-2.899	19.289	1.00	0.00	H
ATOM	1458	1HB	SER A	99123.163	-3.983	17.443	1.00	0.00	H
ATOM	1459	2HB	SER A	99122.920	-5.118	18.771	1.00	0.00	H
ATOM	1460	HG	SER A	99121.811	-2.774	18.493	1.00	0.00	H
ATOM	1461	N	GLY A	100125.544	-4.304	21.186	1.00	0.00	N
ATOM	1462	CA	GLY A	100125.896	-5.111	22.339	1.00	0.00	C
ATOM	1463	C	GLY A	100125.496	-4.454	23.648	1.00	0.00	C
ATOM	1464	O	GLY A	100124.378	-4.651	24.125	1.00	0.00	O
ATOM	1465	H	GLY A	100125.692	-3.335	21.204	1.00	0.00	H
ATOM	1466	1HA	GLY A	100125.400	-6.066	22.261	1.00	0.00	H
ATOM	1467	2HA	GLY A	100126.965	-5.270	22.341	1.00	0.00	H
ATOM	1468	N	PRO A	101126.396	-3.664	24.257	1.00	0.00	N
ATOM	1469	CA	PRO A	101126.116	-2.980	25.524	1.00	0.00	C
ATOM	1470	C	PRO A	101125.105	-1.850	25.358	1.00	0.00	C
ATOM	1471	O	PRO A	101124.312	-1.575	26.259	1.00	0.00	O
ATOM	1472	CB	PRO A	101127.479	-2.422	25.935	1.00	0.00	C
ATOM	1473	CG	PRO A	101128.223	-2.260	24.656	1.00	0.00	C
ATOM	1474	CD	PRO A	101127.753	-3.373	23.760	1.00	0.00	C
ATOM	1475	HA	PRO A	101125.763	-3.670	26.276	1.00	0.00	H
ATOM	1476	1HB	PRO A	101127.346	-1.474	26.439	1.00	0.00	H

ATOM	1477	2HB	PRO A 101127.973	-3.120	26.594	1.00	0.00	H
ATOM	1478	1HG	PRO A 101127.993	-1.301	24.216	1.00	0.00	H
ATOM	1479	2HG	PRO A 101129.285	-2.347	24.835	1.00	0.00	H
ATOM	1480	1HD	PRO A 101127.724	-3.042	22.731	1.00	0.00	H
ATOM	1481	2HD	PRO A 101128.394	-4.236	23.862	1.00	0.00	H
ATOM	1482	N	SER A 102125.139	-1.199	24.199	1.00	0.00	N
ATOM	1483	CA	SER A 102124.225	-0.098	23.914	1.00	0.00	C
ATOM	1484	C	SER A 102123.435	-0.365	22.637	1.00	0.00	C
ATOM	1485	O	SER A 102124.012	-0.552	21.566	1.00	0.00	O
ATOM	1486	CB	SER A 102125.000	1.213	23.781	1.00	0.00	C
ATOM	1487	OG	SER A 102125.222	1.806	25.049	1.00	0.00	O
ATOM	1488	H	SER A 102125.793	-1.465	23.521	1.00	0.00	H
ATOM	1489	HA	SER A 102123.535	-0.016	24.739	1.00	0.00	H
ATOM	1490	1HB	SER A 102125.956	1.020	23.317	1.00	0.00	H
ATOM	1491	2HB	SER A 102124.437	1.902	23.168	1.00	0.00	H
ATOM	1492	HG	SER A 102124.448	2.315	25.305	1.00	0.00	H
ATOM	1493	N	SER A 103122.112	-0.385	22.759	1.00	0.00	N
ATOM	1494	CA	SER A 103121.243	-0.631	21.614	1.00	0.00	C
ATOM	1495	C	SER A 103119.920	0.115	21.765	1.00	0.00	C
ATOM	1496	O	SER A 103119.107	-0.212	22.629	1.00	0.00	O
ATOM	1497	CB	SER A 103120.982	-2.129	21.459	1.00	0.00	C
ATOM	1498	OG	SER A 103120.388	-2.668	22.627	1.00	0.00	O
ATOM	1499	H	SER A 103121.710	-0.229	23.639	1.00	0.00	H
ATOM	1500	HA	SER A 103121.748	-0.268	20.731	1.00	0.00	H
ATOM	1501	1HB	SER A 103120.316	-2.292	20.624	1.00	0.00	H
ATOM	1502	2HB	SER A 103121.917	-2.639	21.276	1.00	0.00	H
ATOM	1503	HG	SER A 103120.531	-3.617	22.650	1.00	0.00	H

ATOM	1504	N	GLY A 1041	119.713	1.118	20.918	1.00	0.00	N
ATOM	1505	CA	GLY A 1041	118.488	1.894	20.973	1.00	0.00	C
ATOM	1506	C	GLY A 1041	117.863	2.089	19.605	1.00	0.00	C
ATOM	1507	O	GLY A 1041	117.616	3.253	19.226	1.00	0.00	O
ATOM	1508	OXT	GLY A 1041	117.621	1.078	18.914	1.00	0.00	O
ATOM	1509	H	GLY A 1041	120.396	1.333	20.250	1.00	0.00	H
ATOM	1510	1HA	GLY A 1041	117.780	1.384	21.611	1.00	0.00	H
ATOM	1511	2HA	GLY A 1041	118.707	2.862	21.398	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 14

ATOM 1	N	GLY A	1137.007	6.698	11.421	1.00	0.00	N
ATOM 2	CA	GLY A	1136.169	6.784	12.650	1.00	0.00	C
ATOM 3	C	GLY A	1135.283	8.014	12.663	1.00	0.00	C
ATOM 4	O	GLY A	1134.315	8.099	11.908	1.00	0.00	O
ATOM 5	1H	GLY A	1137.956	6.347	11.659	1.00	0.00	H
ATOM 6	2H	GLY A	1137.096	7.637	10.983	1.00	0.00	H
ATOM 7	3H	GLY A	1136.570	6.049	10.736	1.00	0.00	H
ATOM 8	1HA	GLY A	1135.546	5.905	12.709	1.00	0.00	H
ATOM 9	2HA	GLY A	1136.818	6.813	13.512	1.00	0.00	H
ATOM10	N	SER A	2135.616	8.971	13.523	1.00	0.00	N
ATOM11	CA	SER A	2134.844	10.204	13.632	1.00	0.00	C
ATOM12	C	SER A	2135.755	11.425	13.568	1.00	0.00	C
ATOM13	O	SER A	2135.655	12.239	12.650	1.00	0.00	O
ATOM14	CB	SER A	2134.046	10.217	14.938	1.00	0.00	C
ATOM15	OG	SER A	2132.921	9.360	14.856	1.00	0.00	O

ATOM16	H	SER A	2136.399	8.846	14.098	1.00	0.00	H
ATOM17	HA	SER A	2134.156	10.239	12.801	1.00	0.00	H
ATOM18	1HB	SER A	2134.678	9.882	15.747	1.00	0.00	H
ATOM19	2HB	SER A	2133.705	11.221	15.139	1.00	0.00	H
ATOM20	HG	SER A	2133.192	8.456	15.029	1.00	0.00	H
ATOM21	N	SER A	3136.645	11.545	14.548	1.00	0.00	N
ATOM22	CA	SER A	3137.575	12.668	14.603	1.00	0.00	C
ATOM23	C	SER A	3138.909	12.299	13.962	1.00	0.00	C
ATOM24	O	SER A	3139.477	11.244	14.248	1.00	0.00	O
ATOM25	CB	SER A	3137.794	13.104	16.051	1.00	0.00	C
ATOM26	OG	SER A	3138.507	14.328	16.114	1.00	0.00	O
ATOM27	H	SER A	3136.676	10.863	15.252	1.00	0.00	H
ATOM28	HA	SER A	3137.139	13.487	14.051	1.00	0.00	H
ATOM29	1HB	SER A	3136.838	13.234	16.536	1.00	0.00	H
ATOM30	2HB	SER A	3138.361	12.346	16.573	1.00	0.00	H
ATOM31	HG	SER A	3137.906	15.057	15.945	1.00	0.00	H
ATOM32	N	GLY A	4139.405	13.175	13.095	1.00	0.00	N
ATOM33	CA	GLY A	4140.670	12.923	12.429	1.00	0.00	C
ATOM34	C	GLY A	4141.383	14.202	12.034	1.00	0.00	C
ATOM35	O	GLY A	4141.365	15.184	12.776	1.00	0.00	O
ATOM36	H	GLY A	4138.910	13.999	12.906	1.00	0.00	H
ATOM37	1HA	GLY A	4141.308	12.359	13.092	1.00	0.00	H
ATOM38	2HA	GLY A	4140.485	12.338	11.540	1.00	0.00	H
ATOM39	N	SER A	5142.011	14.190	10.862	1.00	0.00	N
ATOM40	CA	SER A	5142.733	15.357	10.370	1.00	0.00	C
ATOM41	C	SER A	5143.282	15.107	8.970	1.00	0.00	C
ATOM42	O	SER A	5143.247	15.990	8.111	1.00	0.00	O

ATOM43	CB	SER A	5143.875	15.715	11.323	1.00	0.00	C
ATOM44	OG	SER A	5144.821	14.662	11.403	1.00	0.00	O
ATOM45	H	SER A	5141.988	13.376	10.316	1.00	0.00	H
ATOM46	HA	SER A	5142.038	16.183	10.329	1.00	0.00	H
ATOM47	1HB	SER A	5144.374	16.603	10.965	1.00	0.00	H
ATOM48	2HB	SER A	5143.475	15.900	12.308	1.00	0.00	H
ATOM49	HG	SER A	5144.396	13.877	11.755	1.00	0.00	H
ATOM50	N	SER A	6143.790	13.900	8.745	1.00	0.00	N
ATOM51	CA	SER A	6144.347	13.534	7.449	1.00	0.00	C
ATOM52	C	SER A	6143.297	13.657	6.350	1.00	0.00	C
ATOM53	O	SER A	6143.595	14.099	5.240	1.00	0.00	O
ATOM54	CB	SER A	6144.893	12.105	7.490	1.00	0.00	C
ATOM55	OG	SER A	6146.049	11.976	6.680	1.00	0.00	O
ATOM56	H	SER A	6143.790	13.239	9.470	1.00	0.00	H
ATOM57	HA	SER A	6145.158	14.212	7.233	1.00	0.00	H
ATOM58	1HB	SER A	6145.151	11.849	8.506	1.00	0.00	H
ATOM59	2HB	SER A	6144.137	11.422	7.128	1.00	0.00	H
ATOM60	HG	SER A	6146.833	12.117	7.216	1.00	0.00	H
ATOM61	N	GLY A	7142.068	13.266	6.667	1.00	0.00	N
ATOM62	CA	GLY A	7140.992	13.341	5.695	1.00	0.00	C
ATOM63	C	GLY A	7139.657	12.913	6.273	1.00	0.00	C
ATOM64	O	GLY A	7139.594	12.396	7.389	1.00	0.00	O
ATOM65	H	GLY A	7141.888	12.922	7.567	1.00	0.00	H
ATOM66	1HA	GLY A	7140.909	14.360	5.345	1.00	0.00	H
ATOM67	2HA	GLY A	7141.231	12.703	4.858	1.00	0.00	H
ATOM68	N	LEU A	8138.589	13.127	5.512	1.00	0.00	N
ATOM69	CA	LEU A	8137.249	12.759	5.955	1.00	0.00	C

ATOM70	C	LEU A	8136.760	11.511	5.229	1.00	0.00 C
ATOM71	O	LEU A	8137.474	10.939	4.405	1.00	0.00 O
ATOM72	CB	LEU A	8136.275	13.916	5.719	1.00	0.00 C
ATOM73	CG	LEU A	8136.473	15.126	6.634	1.00	0.00 C
ATOM74	CD1	LEU A	8136.089	16.408	5.913	1.00	0.00 C
ATOM75	CD2	LEU A	8135.660	14.964	7.911	1.00	0.00 C
ATOM76	H	LEU A	8138.704	13.542	4.632	1.00	0.00 H
ATOM77	HA	LEU A	8137.296	12.551	7.014	1.00	0.00 H
ATOM78	1HB	LEU A	8136.382	14.244	4.695	1.00	0.00 H
ATOM79	2HB	LEU A	8135.271	13.547	5.859	1.00	0.00 H
ATOM80	HG	LEU A	8137.516	15.195	6.907	1.00	0.00 H
ATOM81	1HD1	LEU A	8136.166	17.241	6.597	1.00	0.00 H
ATOM82	2HD1	LEU A	8135.073	16.330	5.555	1.00	0.00 H
ATOM83	3HD1	LEU A	8136.755	16.565	5.078	1.00	0.00 H
ATOM84	1HD2	LEU A	8136.213	15.371	8.743	1.00	0.00 H
ATOM85	2HD2	LEU A	8135.467	13.916	8.084	1.00	0.00 H
ATOM86	3HD2	LEU A	8134.723	15.491	7.809	1.00	0.00 H
ATOM87	N	ALAA	9135.537	11.093	5.538	1.00	0.00 N
ATOM88	CA	ALAA	9134.950	9.912	4.916	1.00	0.00 C
ATOM89	C	ALAA	9133.745	10.285	4.060	1.00	0.00 C
ATOM90	O	ALAA	9132.629	10.414	4.565	1.00	0.00 O
ATOM91	CB	ALAA	9134.554	8.899	5.978	1.00	0.00 C
ATOM92	H	ALAA	9135.015	11.591	6.203	1.00	0.00 H
ATOM93	HA	ALAA	9135.701	9.462	4.284	1.00	0.00 H
ATOM94	1HB	ALAA	9135.139	9.064	6.870	1.00	0.00 H
ATOM95	2HB	ALAA	9134.735	7.900	5.608	1.00	0.00 H
ATOM96	3HB	ALAA	9133.505	9.011	6.209	1.00	0.00 H

ATOM97	N	MET A	10133.977	10.453	2.763	1.00	0.00	N
ATOM98	CA	MET A	10132.909	10.809	1.836	1.00	0.00	C
ATOM99	C	MET A	10133.235	10.328	0.423	1.00	0.00	C
ATOM	100	O	MET A	10134.398	10.306	0.019	1.00	O
ATOM	101	CB	MET A	10132.689	12.324	1.837	1.00	C
ATOM	102	CG	MET A	10131.224	12.725	1.906	1.00	C
ATOM	103	SD	MET A	10130.954	14.197	2.912	1.00	S
ATOM	104	CE	MET A	10129.806	15.105	1.880	1.00	C
ATOM	105	H	MET A	10134.887	10.335	2.421	1.00	H
ATOM	106	HA	MET A	10132.007	10.322	2.170	1.00	H
ATOM	107	1HB	MET A	10133.197	12.749	2.690	1.00	H
ATOM	108	2HB	MET A	10133.112	12.740	0.934	1.00	H
ATOM	109	1HG	MET A	10130.871	12.921	0.905	1.00	H
ATOM	110	2HG	MET A	10130.661	11.908	2.331	1.00	H
ATOM	111	1HE	MET A	10128.831	15.110	2.345	1.00	H
ATOM	112	2HE	MET A	10129.742	14.634	0.911	1.00	H
ATOM	113	3HE	MET A	10130.153	16.122	1.763	1.00	H
ATOM	114	N	PRO A	11132.208	9.938	-0.352	1.00	N
ATOM	115	CA	PRO A	11132.396	9.459	-1.725	1.00	C
ATOM	116	C	PRO A	11133.132	10.473	-2.599	1.00	C
ATOM	117	O	PRO A	11134.059	10.114	-3.325	1.00	O
ATOM	118	CB	PRO A	11130.970	9.244	-2.241	1.00	C
ATOM	119	CG	PRO A	11130.125	9.113	-1.020	1.00	C
ATOM	120	CD	PRO A	11130.790	9.935	0.049	1.00	C
ATOM	121	HA	PRO A	11132.931	8.521	-1.742	1.00	H
ATOM	122	1HB	PRO A	11130.671	10.090	-2.841	1.00	H
ATOM	123	2HB	PRO A	11130.936	8.345	-2.840	1.00	H

ATOM	124	1HG	PRO A	11129.137	9.495	-1.219	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.075	8.078	-0.718	1.00	0.00	H
ATOM	126	1HD	PRO A	11130.391	10.938	0.056	1.00	0.00	H
ATOM	127	2HD	PRO A	11130.664	9.470	1.014	1.00	0.00	H
ATOM	128	N	PRO A	12132.736	11.759	-2.541	1.00	0.00	N
ATOM	129	CA	PRO A	12133.378	12.813	-3.334	1.00	0.00	C
ATOM	130	C	PRO A	12134.869	12.923	-3.039	1.00	0.00	C
ATOM	131	O	PRO A	12135.631	13.466	-3.838	1.00	0.00	O
ATOM	132	CB	PRO A	12132.653	14.092	-2.900	1.00	0.00	C
ATOM	133	CG	PRO A	12131.361	13.627	-2.322	1.00	0.00	C
ATOM	134	CD	PRO A	12131.646	12.290	-1.702	1.00	0.00	C
ATOM	135	HA	PRO A	12133.232	12.654	-4.392	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.249	14.614	-2.166	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.494	14.727	-3.758	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.023	14.325	-1.569	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.622	13.529	-3.102	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.969	12.408	-0.678	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.775	11.657	-1.754	1.00	0.00	H
ATOM	142	N	GLY A	13135.278	12.404	-1.885	1.00	0.00	N
ATOM	143	CA	GLY A	13136.677	12.454	-1.503	1.00	0.00	C
ATOM	144	C	GLY A	13137.536	11.512	-2.324	1.00	0.00	C
ATOM	145	O	GLY A	13138.032	11.882	-3.388	1.00	0.00	O
ATOM	146	H	GLY A	13134.624	11.983	-1.287	1.00	0.00	H
ATOM	147	1HA	GLY A	13137.039	13.462	-1.637	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.764	12.186	-0.460	1.00	0.00	H
ATOM	149	N	ASN A	14137.714	10.292	-1.828	1.00	0.00	N
ATOM	150	CA	ASN A	14138.520	9.294	-2.521	1.00	0.00	C

ATOM	151	C	ASN A	14137.658	8.456	-3.459	1.00	0.00	C
ATOM	152	O	ASN A	14137.807	8.520	-4.680	1.00	0.00	O
ATOM	153	CB	ASN A	14139.226	8.385	-1.513	1.00	0.00	C
ATOM	154	CG	ASN A	14139.889	9.167	-0.395	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.791	8.801	0.776	1.00	0.00	O
ATOM	156	ND2	ASN A	14140.569	10.250	-0.752	1.00	0.00	N
ATOM	157	H	ASN A	14137.292	10.057	-0.975	1.00	0.00	H
ATOM	158	HA	ASN A	14139.263	9.816	-3.105	1.00	0.00	H
ATOM	159	1HB	ASN A	14138.503	7.712	-1.076	1.00	0.00	H
ATOM	160	2HB	ASN A	14139.983	7.811	-2.025	1.00	0.00	H
ATOM	161	1HD2	ASN A	14140.604	10.482	-1.704	1.00	0.00	H
ATOM	162	2HD2	ASN A	14141.006	10.774	-0.049	1.00	0.00	H
ATOM	163	N	SER A	15136.756	7.668	-2.882	1.00	0.00	N
ATOM	164	CA	SER A	15135.870	6.817	-3.666	1.00	0.00	C
ATOM	165	C	SER A	15134.814	6.168	-2.777	1.00	0.00	C
ATOM	166	O	SER A	15133.642	6.086	-3.146	1.00	0.00	O
ATOM	167	CB	SER A	15136.675	5.738	-4.392	1.00	0.00	C
ATOM	168	OG	SER A	15136.145	5.486	-5.682	1.00	0.00	O
ATOM	169	H	SER A	15136.685	7.661	-1.904	1.00	0.00	H
ATOM	170	HA	SER A	15135.375	7.438	-4.397	1.00	0.00	H
ATOM	171	1HB	SER A	15137.699	6.064	-4.495	1.00	0.00	H
ATOM	172	2HB	SER A	15136.645	4.822	-3.819	1.00	0.00	H
ATOM	173	HG	SER A	15136.794	5.013	-6.208	1.00	0.00	H
ATOM	174	N	HIS A	16135.237	5.708	-1.604	1.00	0.00	N
ATOM	175	CA	HIS A	16134.328	5.066	-0.661	1.00	0.00	C
ATOM	176	C	HIS A	16134.819	5.241	0.773	1.00	0.00	C
ATOM	177	O	HIS A	16134.579	4.390	1.629	1.00	0.00	O

ATOM	178	CB	HIS A	16134.188	3.578	-0.988	1.00	0.00	C
ATOM	179	CG	HIS A	16133.030	3.270	-1.886	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.716	3.386	-1.485	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.994	2.848	-3.173	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.921	3.048	-2.485	1.00	0.00	C
ATOM	183	NE2	HIS A	16131.672	2.718	-3.520	1.00	0.00	N
ATOM	184	H	HIS A	16136.183	5.803	-1.367	1.00	0.00	H
ATOM	185	HA	HIS A	16133.363	5.540	-0.758	1.00	0.00	H
ATOM	186	1HB	HIS A	16135.087	3.239	-1.479	1.00	0.00	H
ATOM	187	2HB	HIS A	16134.054	3.026	-0.069	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.410	3.672	-0.599	1.00	0.00	H
ATOM	189	HD2	HIS A	16133.846	2.651	-3.806	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.841	3.042	-2.461	1.00	0.00	H
ATOM	191	HE2	HIS A	16131.339	2.344	-4.363	1.00	0.00	H
ATOM	192	N	GLY A	17135.509	6.349	1.026	1.00	0.00	N
ATOM	193	CA	GLY A	17136.023	6.614	2.357	1.00	0.00	C
ATOM	194	C	GLY A	17137.291	5.838	2.655	1.00	0.00	C
ATOM	195	O	GLY A	17137.373	5.129	3.658	1.00	0.00	O
ATOM	196	H	GLY A	17135.671	6.991	0.304	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.231	7.669	2.447	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.271	6.343	3.082	1.00	0.00	H
ATOM	199	N	LEU A	18138.283	5.971	1.780	1.00	0.00	N
ATOM	200	CA	LEU A	18139.554	5.277	1.953	1.00	0.00	C
ATOM	201	C	LEU A	18140.649	6.246	2.386	1.00	0.00	C
ATOM	202	O	LEU A	18141.244	6.935	1.559	1.00	0.00	O
ATOM	203	CB	LEU A	18139.959	4.580	0.654	1.00	0.00	C
ATOM	204	CG	LEU A	18138.878	3.699	0.027	1.00	0.00	C

ATOM	205	CD1	LEU A	18139.227	3.369	-1.416	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.695	2.424	0.837	1.00	0.00	C
ATOM	207	H	LEU A	18138.157	6.552	1.000	1.00	0.00	H
ATOM	208	HA	LEU A	18139.423	4.533	2.725	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.239	5.337	-0.064	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.822	3.963	0.855	1.00	0.00	H
ATOM	211	HG	LEU A	18137.940	4.234	0.029	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.039	2.657	-1.436	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.526	4.271	-1.929	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.364	2.944	-1.908	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.956	2.612	1.868	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.334	1.649	0.440	1.00	0.00	H
ATOM	217	3HD2	LEU A	18137.664	2.105	0.779	1.00	0.00	H
ATOM	218	N	GLU A	19140.909	6.294	3.689	1.00	0.00	N
ATOM	219	CA	GLU A	19141.933	7.179	4.232	1.00	0.00	C
ATOM	220	C	GLU A	19142.893	6.410	5.134	1.00	0.00	C
ATOM	221	O	GLU A	19142.733	5.209	5.347	1.00	0.00	O
ATOM	222	CB	GLU A	19141.286	8.323	5.014	1.00	0.00	C
ATOM	223	CG	GLU A	19140.180	7.869	5.954	1.00	0.00	C
ATOM	224	CD	GLU A	19138.807	7.933	5.313	1.00	0.00	C
ATOM	225	OE1	GLU A	19137.904	7.200	5.770	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.636	8.715	4.354	1.00	0.00	O
ATOM	227	H	GLU A	19140.400	5.720	4.299	1.00	0.00	H
ATOM	228	HA	GLU A	19142.488	7.591	3.403	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.045	8.819	5.600	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.865	9.031	4.314	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.374	6.849	6.251	1.00	0.00	H

ATOM	232	2HG	GLU A	19140.184	8.504	6.827	1.00	0.00	H
ATOM	233	N	VAL A	20143.892	7.112	5.660	1.00	0.00	N
ATOM	234	CA	VAL A	20144.879	6.496	6.540	1.00	0.00	C
ATOM	235	C	VAL A	20144.212	5.870	7.760	1.00	0.00	C
ATOM	236	O	VAL A	20143.239	6.406	8.292	1.00	0.00	O
ATOM	237	CB	VAL A	20145.928	7.522	7.010	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.026	6.838	7.811	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.514	8.269	5.820	1.00	0.00	C
ATOM	240	H	VAL A	20143.967	8.068	5.452	1.00	0.00	H
ATOM	241	HA	VAL A	20145.386	5.723	5.982	1.00	0.00	H
ATOM	242	HB	VAL A	20145.439	8.240	7.652	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.242	5.874	7.375	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.697	6.706	8.832	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.917	7.448	7.795	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.464	7.643	4.942	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.544	8.520	6.025	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.949	9.174	5.650	1.00	0.00	H
ATOM	249	N	GLY A	21144.742	4.733	8.199	1.00	0.00	N
ATOM	250	CA	GLY A	21144.184	4.052	9.354	1.00	0.00	C
ATOM	251	C	GLY A	21143.152	3.010	8.969	1.00	0.00	C
ATOM	252	O	GLY A	21143.170	1.890	9.482	1.00	0.00	O
ATOM	253	H	GLY A	21145.516	4.352	7.736	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.984	3.569	9.893	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.719	4.783	9.998	1.00	0.00	H
ATOM	256	N	SER A	22142.249	3.378	8.067	1.00	0.00	N
ATOM	257	CA	SER A	22141.204	2.467	7.615	1.00	0.00	C
ATOM	258	C	SER A	22141.786	1.358	6.747	1.00	0.00	C

ATOM	259	O	SER A	22142.822	1.538	6.104	1.00	0.00	O
ATOM	260	CB	SER A	22140.134	3.232	6.834	1.00	0.00	C
ATOM	261	OG	SER A	22139.423	4.122	7.678	1.00	0.00	O
ATOM	262	H	SER A	22142.286	4.284	7.696	1.00	0.00	H
ATOM	263	HA	SER A	22140.750	2.024	8.489	1.00	0.00	H
ATOM	264	1HB	SER A	22140.604	3.802	6.047	1.00	0.00	H
ATOM	265	2HB	SER A	22139.435	2.531	6.403	1.00	0.00	H
ATOM	266	HG	SER A	22138.513	4.188	7.381	1.00	0.00	H
ATOM	267	N	LEU A	23141.116	0.211	6.730	1.00	0.00	N
ATOM	268	CA	LEU A	23141.567	-0.929	5.940	1.00	0.00	C
ATOM	269	C	LEU A	23141.124	-0.794	4.487	1.00	0.00	C
ATOM	270	O	LEU A	23140.077	-0.212	4.198	1.00	0.00	O
ATOM	271	CB	LEU A	23141.027	-2.233	6.531	1.00	0.00	C
ATOM	272	CG	LEU A	23141.478	-2.531	7.961	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.431	-3.358	8.690	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.820	-3.250	7.957	1.00	0.00	C
ATOM	275	H	LEU A	23140.297	0.128	7.263	1.00	0.00	H
ATOM	276	HA	LEU A	23142.646	-0.949	5.974	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.947	-2.188	6.518	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.345	-3.049	5.899	1.00	0.00	H
ATOM	279	HG	LEU A	23141.599	-1.599	8.496	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.753	-2.701	9.213	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.918	-4.011	9.400	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.879	-3.950	7.975	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.428	-2.871	7.148	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.659	-4.309	7.822	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.323	-3.079	8.896	1.00	0.00	H

ATOM	286	N	ALAA	24141.926	-1.332	3.576	1.00	0.00	N
ATOM	287	CA	ALAA	24141.616	-1.272	2.153	1.00	0.00	C
ATOM	288	C	ALAA	24142.176	-2.483	1.414	1.00	0.00	C
ATOM	289	O	ALAA	24143.212	-3.029	1.794	1.00	0.00	O
ATOM	290	CB	ALAA	24142.160	0.014	1.549	1.00	0.00	C
ATOM	291	H	ALAA	24142.746	-1.783	3.867	1.00	0.00	H
ATOM	292	HA	ALAA	24140.541	-1.265	2.046	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.945	0.035	0.491	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.229	0.059	1.700	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.694	0.863	2.027	1.00	0.00	H
ATOM	296	N	GLUA	25141.485	-2.897	0.357	1.00	0.00	N
ATOM	297	CA	GLUA	25141.914	-4.044	-0.436	1.00	0.00	C
ATOM	298	C	GLUA	25142.278	-3.617	-1.855	1.00	0.00	C
ATOM	299	O	GLUA	25141.740	-2.641	-2.377	1.00	0.00	O
ATOM	300	CB	GLUA	25140.812	-5.104	-0.475	1.00	0.00	C
ATOM	301	CG	GLUA	25141.271	-6.438	-1.041	1.00	0.00	C
ATOM	302	CD	GLUA	25140.118	-7.287	-1.539	1.00	0.00	C
ATOM	303	OE1	GLUA	25140.180	-8.524	-1.381	1.00	0.00	O
ATOM	304	OE2	GLUA	25139.154	-6.715	-2.089	1.00	0.00	O
ATOM	305	H	GLUA	25140.668	-2.420	0.104	1.00	0.00	H
ATOM	306	HA	GLUA	25142.790	-4.465	0.037	1.00	0.00	H
ATOM	307	1HB	GLUA	25140.451	-5.267	0.528	1.00	0.00	H
ATOM	308	2HB	GLUA	25140.000	-4.739	-1.087	1.00	0.00	H
ATOM	309	1HG	GLUA	25141.944	-6.253	-1.865	1.00	0.00	H
ATOM	310	2HG	GLUA	25141.793	-6.982	-0.267	1.00	0.00	H
ATOM	311	N	VALA	26143.193	-4.356	-2.473	1.00	0.00	N
ATOM	312	CA	VALA	26143.628	-4.055	-3.833	1.00	0.00	C

ATOM	313	C	VAL A	26143.295	-5.201	-4.783	1.00	0.00 C
ATOM	314	O	VAL A	26143.563	-6.365	-4.486	1.00	0.00 O
ATOM	315	CB	VAL A	26145.142	-3.779	-3.889	1.00	0.00 C
ATOM	316	CG1	VAL A	26145.542	-3.276	-5.268	1.00	0.00 C
ATOM	317	CG2	VAL A	26145.544	-2.784	-2.812	1.00	0.00 C
ATOM	318	H	VAL A	26143.585	-5.123	-2.005	1.00	0.00 H
ATOM	319	HA	VAL A	26143.108	-3.166	-4.160	1.00	0.00 H
ATOM	320	HB	VAL A	26145.664	-4.708	-3.706	1.00	0.00 H
ATOM	321	1HG1	VAL A	26145.881	-4.106	-5.870	1.00	0.00 H
ATOM	322	2HG1	VAL A	26146.338	-2.552	-5.170	1.00	0.00 H
ATOM	323	3HG1	VAL A	26144.690	-2.811	-5.743	1.00	0.00 H
ATOM	324	1HG2	VAL A	26145.218	-1.794	-3.097	1.00	0.00 H
ATOM	325	2HG2	VAL A	26146.618	-2.790	-2.699	1.00	0.00 H
ATOM	326	3HG2	VAL A	26145.082	-3.061	-1.876	1.00	0.00 H
ATOM	327	N	LYS A	27142.711	-4.862	-5.928	1.00	0.00 N
ATOM	328	CA	LYS A	27142.343	-5.861	-6.923	1.00	0.00 C
ATOM	329	C	LYS A	27143.544	-6.240	-7.783	1.00	0.00 C
ATOM	330	O	LYS A	27143.826	-5.593	-8.793	1.00	0.00 O
ATOM	331	CB	LYS A	27141.211	-5.337	-7.809	1.00	0.00 C
ATOM	332	CG	LYS A	27139.824	-5.630	-7.261	1.00	0.00 C
ATOM	333	CD	LYS A	27138.839	-4.529	-7.622	1.00	0.00 C
ATOM	334	CE	LYS A	27137.412	-5.050	-7.659	1.00	0.00 C
ATOM	335	NZ	LYS A	27137.180	-5.955	-8.818	1.00	0.00 N
ATOM	336	H	LYS A	27142.524	-3.916	-6.107	1.00	0.00 H
ATOM	337	HA	LYS A	27142.000	-6.741	-6.399	1.00	0.00 H
ATOM	338	1HB	LYS A	27141.316	-4.267	-7.911	1.00	0.00 H
ATOM	339	2HB	LYS A	27141.293	-5.792	-8.785	1.00	0.00 H

ATOM	340	1HG	LYS A	27139.474	-6.563	-7.675	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.883	-5.709	-6.184	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.906	-3.743	-6.886	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.095	-4.136	-8.595	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.216	-5.592	-6.746	1.00	0.00	H
ATOM	345	2HE	LYS A	27136.737	-4.209	-7.728	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.080	-6.370	-9.134	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.760	-5.425	-9.607	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.531	-6.722	-8.548	1.00	0.00	H
ATOM	349	N	GLU A	28144.248	-7.292	-7.378	1.00	0.00	N
ATOM	350	CA	GLU A	28145.419	-7.756	-8.113	1.00	0.00	C
ATOM	351	C	GLU A	28145.464	-9.280	-8.158	1.00	0.00	C
ATOM	352	O	GLU A	28144.576	-9.953	-7.632	1.00	0.00	O
ATOM	353	CB	GLU A	28146.698	-7.213	-7.470	1.00	0.00	C
ATOM	354	CG	GLU A	28147.678	-6.624	-8.470	1.00	0.00	C
ATOM	355	CD	GLU A	28147.048	-5.559	-9.346	1.00	0.00	C
ATOM	356	OE1	GLU A	28147.122	-4.368	-8.979	1.00	0.00	O
ATOM	357	OE2	GLU A	28146.480	-5.916	-10.400	1.00	0.00	O
ATOM	358	H	GLU A	28143.974	-7.767	-6.566	1.00	0.00	H
ATOM	359	HA	GLU A	28145.348	-7.381	-9.123	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.432	-6.442	-6.762	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.194	-8.016	-6.944	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.502	-6.180	-7.931	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.049	-7.417	-9.103	1.00	0.00	H
ATOM	364	N	ASN A	29146.504	-9.819	-8.786	1.00	0.00	N
ATOM	365	CA	ASN A	29146.664	-11.264	-8.897	1.00	0.00	C
ATOM	366	C	ASN A	29146.770	-11.906	-7.515	1.00	0.00	C

ATOM	367	O	ASN A	29145.957	-12.756	-7.154	1.00	0.00	O
ATOM	368	CB	ASN A	29147.905	-11.598	-9.727	1.00	0.00	C
ATOM	369	CG	ASN A	29147.568	-11.905	-11.173	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.707	-13.040	-11.628	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.121	-10.890	-11.905	1.00	0.00	N
ATOM	372	H	ASN A	29147.179	-9.231	-9.184	1.00	0.00	H
ATOM	373	HA	ASN A	29145.791	-11.656	-9.396	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.582	-10.758	-9.706	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.395	-12.461	-9.300	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.036	-10.013	-11.476	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.896	-11.059	-12.842	1.00	0.00	H
ATOM	378	N	PRO A	30147.778	-11.503	-6.723	1.00	0.00	N
ATOM	379	CA	PRO A	30147.987	-12.042	-5.377	1.00	0.00	C
ATOM	380	C	PRO A	30147.010	-11.453	-4.360	1.00	0.00	C
ATOM	381	O	PRO A	30147.110	-10.279	-4.003	1.00	0.00	O
ATOM	382	CB	PRO A	30149.417	-11.613	-5.053	1.00	0.00	C
ATOM	383	CG	PRO A	30149.612	-10.350	-5.820	1.00	0.00	C
ATOM	384	CD	PRO A	30148.794	-10.492	-7.077	1.00	0.00	C
ATOM	385	HA	PRO A	30147.919	-13.119	-5.365	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.514	-11.450	-3.989	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.108	-12.378	-5.371	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.261	-9.510	-5.238	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.656	-10.228	-6.065	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.328	-9.553	-7.331	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.413	-10.838	-7.892	1.00	0.00	H
ATOM	392	N	PRO A	31146.049	-12.260	-3.875	1.00	0.00	N
ATOM	393	CA	PRO A	31145.058	-11.803	-2.895	1.00	0.00	C

ATOM	394	C	PRO A	31145.678	-11.530	-1.530	1.00	0.00	C
ATOM	395	O	PRO A	31145.993	-12.457	-0.783	1.00	0.00	O
ATOM	396	CB	PRO A	31144.073	-12.971	-2.811	1.00	0.00	C
ATOM	397	CG	PRO A	31144.865	-14.165	-3.217	1.00	0.00	C
ATOM	398	CD	PRO A	31145.851	-13.676	-4.241	1.00	0.00	C
ATOM	399	HA	PRO A	31144.543	-10.918	-3.239	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.707	-13.064	-1.799	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.247	-12.798	-3.485	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.383	-14.570	-2.361	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.213	-14.909	-3.651	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.777	-14.227	-4.165	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.439	-13.763	-5.235	1.00	0.00	H
ATOM	406	N	PHE A	32145.851	-10.252	-1.209	1.00	0.00	N
ATOM	407	CA	PHE A	32146.434	-9.855	0.067	1.00	0.00	C
ATOM	408	C	PHE A	32145.612	-8.748	0.720	1.00	0.00	C
ATOM	409	O	PHE A	32144.860	-8.042	0.049	1.00	0.00	O
ATOM	410	CB	PHE A	32147.877	-9.388	-0.130	1.00	0.00	C
ATOM	411	CG	PHE A	32148.019	-8.298	-1.154	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.534	-7.025	-0.902	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.640	-8.547	-2.368	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.664	-6.020	-1.841	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.773	-7.546	-3.312	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.284	-6.282	-3.048	1.00	0.00	C
ATOM	417	H	PHE A	32145.580	-9.558	-1.846	1.00	0.00	H
ATOM	418	HA	PHE A	32146.430	-10.719	0.715	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.258	-9.013	0.808	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.479	-10.226	-0.449	1.00	0.00	H

ATOM	421	HD1 PHE A	32147.050	-6.820	0.041	1.00	0.00	H
ATOM	422	HD2 PHE A	32149.021	-9.536	-2.575	1.00	0.00	H
ATOM	423	HE1 PHE A	32147.282	-5.032	-1.634	1.00	0.00	H
ATOM	424	HE2 PHE A	32149.257	-7.753	-4.255	1.00	0.00	H
ATOM	425	HZ PHE A	32148.387	-5.497	-3.785	1.00	0.00	H
ATOM	426	N TYR A	33145.762	-8.603	2.033	1.00	0.00	N
ATOM	427	CA TYR A	33145.034	-7.581	2.776	1.00	0.00	C
ATOM	428	C TYR A	33145.997	-6.644	3.499	1.00	0.00	C
ATOM	429	O TYR A	33147.087	-7.049	3.903	1.00	0.00	O
ATOM	430	CB TYR A	33144.087	-8.234	3.785	1.00	0.00	C
ATOM	431	CG TYR A	33142.732	-8.579	3.208	1.00	0.00	C
ATOM	432	CD1 TYR A	33141.918	-7.595	2.662	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.269	-9.888	3.211	1.00	0.00	C
ATOM	434	CE1 TYR A	33140.679	-7.907	2.134	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.032	-10.209	2.685	1.00	0.00	C
ATOM	436	CZ TYR A	33140.241	-9.215	2.148	1.00	0.00	C
ATOM	437	OH TYR A	33139.009	-9.529	1.623	1.00	0.00	O
ATOM	438	H TYR A	33146.377	-9.197	2.512	1.00	0.00	H
ATOM	439	HA TYR A	33144.454	-7.007	2.070	1.00	0.00	H
ATOM	440	1HB TYR A	33144.533	-9.146	4.150	1.00	0.00	H
ATOM	441	2HB TYR A	33143.933	-7.557	4.614	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.264	-6.572	2.652	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.890	-10.665	3.633	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.061	-7.129	1.713	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.689	-11.232	2.695	1.00	0.00	H
ATOM	446	HH TYR A	33139.108	-9.788	0.703	1.00	0.00	H
ATOM	447	N GLY A	34145.588	-5.390	3.655	1.00	0.00	N

ATOM	448	CA	GLY A	34146.426	-4.415	4.328	1.00	0.00	C
ATOM	449	C	GLY A	34145.678	-3.140	4.665	1.00	0.00	C
ATOM	450	O	GLY A	34144.607	-2.877	4.118	1.00	0.00	O
ATOM	451	H	GLY A	34144.709	-5.124	3.312	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.802	-4.851	5.242	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.260	-4.172	3.688	1.00	0.00	H
ATOM	454	N	VAL A	35146.244	-2.346	5.568	1.00	0.00	N
ATOM	455	CA	VAL A	35145.624	-1.091	5.977	1.00	0.00	C
ATOM	456	C	VAL A	35146.363	0.106	5.385	1.00	0.00	C
ATOM	457	O	VAL A	35147.579	0.065	5.197	1.00	0.00	O
ATOM	458	CB	VAL A	35145.590	-0.957	7.512	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.001	-0.934	8.085	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.819	0.290	7.924	1.00	0.00	C
ATOM	461	H	VAL A	35147.099	-2.610	5.969	1.00	0.00	H
ATOM	462	HA	VAL A	35144.607	-1.089	5.613	1.00	0.00	H
ATOM	463	HB	VAL A	35145.078	-1.818	7.917	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.266	0.078	8.350	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.694	-1.306	7.345	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.042	-1.560	8.964	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.219	1.148	7.405	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.916	0.437	8.990	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.777	0.168	7.671	1.00	0.00	H
ATOM	470	N	ILE A	36145.621	1.169	5.094	1.00	0.00	N
ATOM	471	CA	ILE A	36146.207	2.375	4.523	1.00	0.00	C
ATOM	472	C	ILE A	36147.145	3.051	5.518	1.00	0.00	C
ATOM	473	O	ILE A	36146.891	3.051	6.723	1.00	0.00	O
ATOM	474	CB	ILE A	36145.120	3.381	4.093	1.00	0.00	C

ATOM	475	CG1	ILE A	36144.081	2.694	3.203	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.747	4.563	3.367	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.977	3.619	2.739	1.00	0.00	C
ATOM	478	H	ILE A	36144.656	1.141	5.267	1.00	0.00	H
ATOM	479	HA	ILE A	36146.771	2.090	3.647	1.00	0.00	H
ATOM	480	HB	ILE A	36144.634	3.753	4.981	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.572	2.298	2.327	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.626	1.883	3.753	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.978	5.272	3.103	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.239	4.214	2.471	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.472	5.038	4.013	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.311	4.643	2.812	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.105	3.479	3.360	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.728	3.394	1.711	1.00	0.00	H
ATOM	489	N	ARG A	37148.228	3.626	5.006	1.00	0.00	N
ATOM	490	CA	ARG A	37149.204	4.304	5.850	1.00	0.00	C
ATOM	491	C	ARG A	37149.446	5.729	5.366	1.00	0.00	C
ATOM	492	O	ARG A	37149.122	6.695	6.059	1.00	0.00	O
ATOM	493	CB	ARG A	37150.523	3.529	5.865	1.00	0.00	C
ATOM	494	CG	ARG A	37150.357	2.054	6.182	1.00	0.00	C
ATOM	495	CD	ARG A	37150.282	1.811	7.681	1.00	0.00	C
ATOM	496	NE	ARG A	37149.059	2.357	8.264	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.901	2.596	9.564	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.884	2.341	10.419	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.755	3.094	10.011	1.00	0.00	N
ATOM	500	H	ARG A	37148.374	3.592	4.037	1.00	0.00	H
ATOM	501	HA	ARG A	37148.808	4.340	6.853	1.00	0.00	H

ATOM	502	1HB	ARG A	37150.989	3.617	4.894	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.174	3.964	6.608	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.445	1.696	5.725	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.200	1.511	5.780	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.312	0.748	7.862	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.134	2.279	8.150	1.00	0.00	H
ATOM	508	HE	ARG A	37148.317	2.555	7.656	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.750	1.966	10.088	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.759	2.524	11.393	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.012	3.289	9.372	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.636	3.274	10.988	1.00	0.00	H
ATOM	513	N	TRP A	38150.018	5.857	4.174	1.00	0.00	N
ATOM	514	CA	TRP A	38150.303	7.167	3.600	1.00	0.00	C
ATOM	515	C	TRP A	38149.570	7.354	2.273	1.00	0.00	C
ATOM	516	O	TRP A	38149.606	6.486	1.403	1.00	0.00	O
ATOM	517	CB	TRP A	38151.811	7.343	3.394	1.00	0.00	C
ATOM	518	CG	TRP A	38152.167	8.555	2.584	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.439	9.807	3.055	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.280	8.629	1.158	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.716	10.655	2.009	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.626	9.954	0.834	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.126	7.701	0.124	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.817	10.374	-0.480	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.317	8.119	-1.180	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.659	9.445	-1.472	1.00	0.00	C
ATOM	527	H	TRP A	38150.254	5.050	3.669	1.00	0.00	H
ATOM	528	HA	TRP A	38149.955	7.915	4.296	1.00	0.00	H

ATOM	529	1HB	TRP A	38152.290	7.435	4.358	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.202	6.474	2.885	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.434	10.079	4.100	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.942	11.605	2.091	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.862	6.676	0.329	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.078	11.394	-0.723	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.201	7.416	-1.991	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.798	9.727	-2.506	1.00	0.00	H
ATOM	537	N	ILE A	39148.917	8.501	2.127	1.00	0.00	N
ATOM	538	CA	ILE A	39148.186	8.818	0.908	1.00	0.00	C
ATOM	539	C	ILE A	39148.671	10.138	0.321	1.00	0.00	C
ATOM	540	O	ILE A	39148.372	11.210	0.847	1.00	0.00	O
ATOM	541	CB	ILE A	39146.670	8.909	1.166	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.190	7.688	1.952	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.914	9.031	-0.149	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.834	7.878	2.597	1.00	0.00	C
ATOM	545	H	ILE A	39148.935	9.157	2.857	1.00	0.00	H
ATOM	546	HA	ILE A	39148.365	8.027	0.193	1.00	0.00	H
ATOM	547	HB	ILE A	39146.478	9.800	1.746	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.124	6.842	1.286	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.901	7.469	2.735	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.209	9.940	-0.650	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.853	9.054	0.047	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.147	8.182	-0.776	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.207	7.029	2.372	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.375	8.777	2.211	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.953	7.966	3.666	1.00	0.00	H

ATOM	556	N	GLY A	40149.430	10.056	-0.768	1.00	0.00	N
ATOM	557	CA	GLY A	40149.949	11.255	-1.397	1.00	0.00	C
ATOM	558	C	GLY A	40150.476	11.005	-2.796	1.00	0.00	C
ATOM	559	O	GLY A	40150.229	9.951	-3.382	1.00	0.00	O
ATOM	560	H	GLY A	40149.641	9.176	-1.144	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.161	11.991	-1.449	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.750	11.647	-0.788	1.00	0.00	H
ATOM	563	N	GLN A	41151.202	11.981	-3.330	1.00	0.00	N
ATOM	564	CA	GLN A	41151.768	11.874	-4.667	1.00	0.00	C
ATOM	565	C	GLN A	41153.268	12.169	-4.645	1.00	0.00	C
ATOM	566	O	GLN A	41153.680	13.290	-4.342	1.00	0.00	O
ATOM	567	CB	GLN A	41151.058	12.843	-5.612	1.00	0.00	C
ATOM	568	CG	GLN A	41149.543	12.769	-5.531	1.00	0.00	C
ATOM	569	CD	GLN A	41148.888	14.133	-5.604	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.913	14.900	-4.641	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.296	14.444	-6.750	1.00	0.00	N
ATOM	572	H	GLN A	41151.360	12.796	-2.811	1.00	0.00	H
ATOM	573	HA	GLN A	41151.612	10.865	-5.016	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.361	13.850	-5.368	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.356	12.623	-6.624	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.179	12.169	-6.352	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.266	12.302	-4.597	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.315	13.784	-7.474	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.866	15.321	-6.827	1.00	0.00	H
ATOM	580	N	PRO A	42154.108	11.168	-4.962	1.00	0.00	N
ATOM	581	CA	PRO A	42155.566	11.336	-4.971	1.00	0.00	C
ATOM	582	C	PRO A	42156.014	12.453	-5.908	1.00	0.00	C

ATOM	583	O	PRO A	42155.280	12.847	-6.814	1.00	0.00 O
ATOM	584	CB	PRO A	42156.085	9.983	-5.467	1.00	0.00 C
ATOM	585	CG	PRO A	42154.986	9.022	-5.171	1.00	0.00 C
ATOM	586	CD	PRO A	42153.712	9.798	-5.334	1.00	0.00 C
ATOM	587	HA	PRO A	42155.947	11.528	-3.978	1.00	0.00 H
ATOM	588	1HB	PRO A	42156.287	10.038	-6.527	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.989	9.723	-4.936	1.00	0.00 H
ATOM	590	1HG	PRO A	42155.017	8.199	-5.869	1.00	0.00 H
ATOM	591	2HG	PRO A	42155.077	8.659	-4.157	1.00	0.00 H
ATOM	592	1HD	PRO A	42153.374	9.759	-6.360	1.00	0.00 H
ATOM	593	2HD	PRO A	42152.951	9.422	-4.667	1.00	0.00 H
ATOM	594	N	PRO A	43157.233	12.979	-5.702	1.00	0.00 N
ATOM	595	CA	PRO A	43157.777	14.056	-6.534	1.00	0.00 C
ATOM	596	C	PRO A	43158.155	13.574	-7.929	1.00	0.00 C
ATOM	597	O	PRO A	43159.298	13.186	-8.174	1.00	0.00 O
ATOM	598	CB	PRO A	43159.025	14.499	-5.769	1.00	0.00 C
ATOM	599	CG	PRO A	43159.441	13.297	-4.994	1.00	0.00 C
ATOM	600	CD	PRO A	43158.174	12.565	-4.644	1.00	0.00 C
ATOM	601	HA	PRO A	43157.087	14.882	-6.614	1.00	0.00 H
ATOM	602	1HB	PRO A	43159.788	14.801	-6.470	1.00	0.00 H
ATOM	603	2HB	PRO A	43158.777	15.322	-5.117	1.00	0.00 H
ATOM	604	1HG	PRO A	43160.079	12.671	-5.601	1.00	0.00 H
ATOM	605	2HG	PRO A	43159.957	13.601	-4.095	1.00	0.00 H
ATOM	606	1HD	PRO A	43158.335	11.498	-4.668	1.00	0.00 H
ATOM	607	2HD	PRO A	43157.817	12.873	-3.672	1.00	0.00 H
ATOM	608	N	GLY A	44157.190	13.600	-8.840	1.00	0.00 N
ATOM	609	CA	GLY A	44157.445	13.163	-10.199	1.00	0.00 C

ATOM	610	C	GLY A	44156.181	12.744	-10.922	1.00	0.00	C
ATOM	611	O	GLY A	44155.911	13.204	-12.031	1.00	0.00	O
ATOM	612	H	GLY A	44156.298	13.919	-8.589	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.907	13.971	-10.745	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.126	12.325	-10.175	1.00	0.00	H
ATOM	615	N	LEU A	45155.404	11.870	-10.292	1.00	0.00	N
ATOM	616	CA	LEU A	45154.160	11.392	-10.885	1.00	0.00	C
ATOM	617	C	LEU A	45152.973	11.708	-9.985	1.00	0.00	C
ATOM	618	O	LEU A	45152.855	11.166	-8.887	1.00	0.00	O
ATOM	619	CB	LEU A	45154.235	9.885	-11.138	1.00	0.00	C
ATOM	620	CG	LEU A	45154.759	9.057	-9.963	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.329	7.602	-10.098	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.276	9.165	-9.870	1.00	0.00	C
ATOM	623	H	LEU A	45155.669	11.540	-9.406	1.00	0.00	H
ATOM	624	HA	LEU A	45154.026	11.899	-11.829	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.244	9.533	-11.385	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.882	9.715	-11.985	1.00	0.00	H
ATOM	627	HG	LEU A	45154.340	9.444	-9.045	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.655	7.351	-9.292	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.198	6.963	-10.053	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.827	7.460	-11.044	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.700	8.182	-9.733	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.541	9.792	-9.032	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.661	9.600	-10.781	1.00	0.00	H
ATOM	634	N	ASNA	46152.092	12.585	-10.453	1.00	0.00	N
ATOM	635	CA	ASNA	46150.917	12.960	-9.678	1.00	0.00	C
ATOM	636	C	ASNA	46149.897	11.827	-9.676	1.00	0.00	C

ATOM	637	O	ASN A	46149.248	11.560	-10.688	1.00	0.00	O
ATOM	638	CB	ASN A	46150.287	14.231	-10.253	1.00	0.00	C
ATOM	639	CG	ASN A	46149.594	15.064	-9.194	1.00	0.00	C
ATOM	640	OD1	ASN A	46150.201	15.450	-8.195	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.314	15.348	-9.407	1.00	0.00	N
ATOM	642	H	ASN A	46152.233	12.986	-11.337	1.00	0.00	H
ATOM	643	HA	ASN A	46151.232	13.150	-8.662	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.059	14.833	-10.709	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.560	13.957	-11.002	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.894	15.007	-10.225	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.841	15.886	-8.738	1.00	0.00	H
ATOM	648	N	GLU A	47149.764	11.164	-8.533	1.00	0.00	N
ATOM	649	CA	GLU A	47148.825	10.057	-8.394	1.00	0.00	C
ATOM	650	C	GLU A	47148.632	9.691	-6.927	1.00	0.00	C
ATOM	651	O	GLU A	47149.588	9.338	-6.237	1.00	0.00	O
ATOM	652	CB	GLU A	47149.318	8.836	-9.176	1.00	0.00	C
ATOM	653	CG	GLU A	47150.823	8.625	-9.095	1.00	0.00	C
ATOM	654	CD	GLU A	47151.334	7.670	-10.157	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.504	8.106	-11.316	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.564	6.487	-9.830	1.00	0.00	O
ATOM	657	H	GLU A	47150.311	11.425	-7.764	1.00	0.00	H
ATOM	658	HA	GLU A	47147.877	10.375	-8.802	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.833	7.955	-8.786	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.049	8.956	-10.215	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.315	9.577	-9.225	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.067	8.224	-8.123	1.00	0.00	H
ATOM	663	N	VAL A	48147.394	9.770	-6.455	1.00	0.00	N

ATOM	664	CA	VAL A	48147.090	9.436	-5.070	1.00	0.00 C
ATOM	665	C	VAL A	48147.386	7.966	-4.794	1.00	0.00 C
ATOM	666	O	VAL A	48146.588	7.090	-5.124	1.00	0.00 O
ATOM	667	CB	VAL A	48145.617	9.726	-4.729	1.00	0.00 C
ATOM	668	CG1	VAL A	48145.372	9.565	-3.236	1.00	0.00 C
ATOM	669	CG2	VAL A	48145.225	11.120	-5.195	1.00	0.00 C
ATOM	670	H	VAL A	48146.669	10.052	-7.051	1.00	0.00 H
ATOM	671	HA	VAL A	48147.715	10.046	-4.434	1.00	0.00 H
ATOM	672	HB	VAL A	48144.999	9.009	-5.251	1.00	0.00 H
ATOM	673	1HG1	VAL A	48144.386	9.932	-2.992	1.00	0.00 H
ATOM	674	2HG1	VAL A	48146.111	10.129	-2.688	1.00	0.00 H
ATOM	675	3HG1	VAL A	48145.443	8.522	-2.970	1.00	0.00 H
ATOM	676	1HG2	VAL A	48144.827	11.066	-6.197	1.00	0.00 H
ATOM	677	2HG2	VAL A	48146.096	11.759	-5.187	1.00	0.00 H
ATOM	678	3HG2	VAL A	48144.476	11.525	-4.530	1.00	0.00 H
ATOM	679	N	LEU A	49148.540	7.705	-4.191	1.00	0.00 N
ATOM	680	CA	LEU A	49148.943	6.339	-3.876	1.00	0.00 C
ATOM	681	C	LEU A	49148.854	6.082	-2.378	1.00	0.00 C
ATOM	682	O	LEU A	49149.567	6.701	-1.587	1.00	0.00 O
ATOM	683	CB	LEU A	49150.369	6.080	-4.366	1.00	0.00 C
ATOM	684	CG	LEU A	49150.575	6.243	-5.874	1.00	0.00 C
ATOM	685	CD1	LEU A	49152.038	6.510	-6.186	1.00	0.00 C
ATOM	686	CD2	LEU A	49150.086	5.007	-6.614	1.00	0.00 C
ATOM	687	H	LEU A	49149.136	8.445	-3.954	1.00	0.00 H
ATOM	688	HA	LEU A	49148.269	5.669	-4.385	1.00	0.00 H
ATOM	689	1HB	LEU A	49151.033	6.764	-3.857	1.00	0.00 H
ATOM	690	2HB	LEU A	49150.642	5.071	-4.095	1.00	0.00 H

ATOM	691	HG	LEU A	49150.000	7.090	-6.218	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.291	6.063	-7.136	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.657	6.081	-5.411	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.208	7.576	-6.233	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.062	5.156	-6.924	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.143	4.150	-5.959	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.704	4.840	-7.482	1.00	0.00	H
ATOM	698	N	ALA A	50147.974	5.167	-1.992	1.00	0.00	N
ATOM	699	CA	ALA A	50147.792	4.831	-0.587	1.00	0.00	C
ATOM	700	C	ALA A	50148.688	3.666	-0.182	1.00	0.00	C
ATOM	701	O	ALA A	50148.525	2.546	-0.669	1.00	0.00	O
ATOM	702	CB	ALA A	50146.333	4.503	-0.306	1.00	0.00	C
ATOM	703	H	ALA A	50147.433	4.707	-2.668	1.00	0.00	H
ATOM	704	HA	ALA A	50148.061	5.700	-0.004	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.211	3.432	-0.242	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.718	4.888	-1.105	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.036	4.956	0.628	1.00	0.00	H
ATOM	708	N	GLY A	51149.636	3.935	0.710	1.00	0.00	N
ATOM	709	CA	GLY A	51150.544	2.898	1.164	1.00	0.00	C
ATOM	710	C	GLY A	51149.868	1.892	2.075	1.00	0.00	C
ATOM	711	O	GLY A	51149.409	2.241	3.164	1.00	0.00	O
ATOM	712	H	GLY A	51149.719	4.845	1.063	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.938	2.379	0.303	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.361	3.359	1.699	1.00	0.00	H
ATOM	715	N	LEU A	52149.805	0.641	1.630	1.00	0.00	N
ATOM	716	CA	LEU A	52149.180	-0.418	2.412	1.00	0.00	C
ATOM	717	C	LEU A	52150.233	-1.315	3.054	1.00	0.00	C

ATOM	718	O	LEU A	52151.307	-1.530	2.492	1.00	0.00	O
ATOM	719	CB	LEU A	52148.252	-1.254	1.528	1.00	0.00	C
ATOM	720	CG	LEU A	52147.044	-0.503	0.965	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.417	-1.283	-0.179	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.020	-0.245	2.061	1.00	0.00	C
ATOM	723	H	LEU A	52150.189	0.427	0.754	1.00	0.00	H
ATOM	724	HA	LEU A	52148.597	0.047	3.193	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.829	-1.639	0.700	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.889	-2.088	2.110	1.00	0.00	H
ATOM	727	HG	LEU A	52147.370	0.453	0.579	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.575	-0.733	-0.572	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.083	-2.245	0.181	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.149	-1.426	-0.960	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.499	0.255	2.889	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.608	-1.185	2.397	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.228	0.377	1.673	1.00	0.00	H
ATOM	734	N	GLU A	53149.920	-1.837	4.235	1.00	0.00	N
ATOM	735	CA	GLU A	53150.839	-2.711	4.955	1.00	0.00	C
ATOM	736	C	GLU A	53150.313	-4.142	4.991	1.00	0.00	C
ATOM	737	O	GLU A	53149.343	-4.440	5.687	1.00	0.00	O
ATOM	738	CB	GLU A	53151.054	-2.198	6.380	1.00	0.00	C
ATOM	739	CG	GLU A	53152.076	-3.001	7.168	1.00	0.00	C
ATOM	740	CD	GLU A	53151.719	-3.118	8.637	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.550	-3.430	8.941	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.611	-2.896	9.484	1.00	0.00	O
ATOM	743	H	GLU A	53149.049	-1.629	4.633	1.00	0.00	H
ATOM	744	HA	GLU A	53151.784	-2.700	4.431	1.00	0.00	H

ATOM	745	1HB	GLU A	53151.391	-1.173	6.335	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.113	-2.236	6.909	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.135	-3.995	6.748	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.039	-2.518	7.082	1.00	0.00	H
ATOM	749	N	LEU A	54150.962	-5.024	4.237	1.00	0.00	N
ATOM	750	CA	LEU A	54150.559	-6.425	4.184	1.00	0.00	C
ATOM	751	C	LEU A	54150.879	-7.133	5.496	1.00	0.00	C
ATOM	752	O	LEU A	54151.963	-6.967	6.054	1.00	0.00	O
ATOM	753	CB	LEU A	54151.260	-7.134	3.023	1.00	0.00	C
ATOM	754	CG	LEU A	54151.173	-6.415	1.676	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.099	-7.067	0.662	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.740	-6.410	1.167	1.00	0.00	C
ATOM	757	H	LEU A	54151.728	-4.727	3.704	1.00	0.00	H
ATOM	758	HA	LEU A	54149.492	-6.457	4.021	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.303	-7.253	3.279	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.821	-8.114	2.910	1.00	0.00	H
ATOM	761	HG	LEU A	54151.487	-5.389	1.803	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.425	-6.328	-0.056	1.00	0.00	H
ATOM	763	2HD1	LEU A	54151.572	-7.857	0.149	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.958	-7.479	1.171	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.733	-6.184	0.111	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.172	-5.661	1.699	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.297	-7.381	1.331	1.00	0.00	H
ATOM	768	N	GLU A	55149.927	-7.923	5.983	1.00	0.00	N
ATOM	769	CA	GLU A	55150.107	-8.656	7.231	1.00	0.00	C
ATOM	770	C	GLU A	55151.145	-9.762	7.068	1.00	0.00	C
ATOM	771	O	GLU A	55151.941	-10.018	7.971	1.00	0.00	O

ATOM	772	CB	GLU A	55148.777	-9.253	7.693	1.00	0.00	C
ATOM	773	CG	GLU A	55147.874	-8.254	8.399	1.00	0.00	C
ATOM	774	CD	GLU A	55146.405	-8.609	8.276	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.074	-9.809	8.379	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.587	-7.687	8.079	1.00	0.00	O
ATOM	777	H	GLU A	55149.084	-8.014	5.493	1.00	0.00	H
ATOM	778	HA	GLU A	55150.457	-7.958	7.978	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.249	-9.636	6.832	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.978	-10.067	8.373	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.136	-8.228	9.445	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.031	-7.277	7.964	1.00	0.00	H
ATOM	783	N	ASP A	56151.131	-10.414	5.910	1.00	0.00	N
ATOM	784	CA	ASP A	56152.071	-11.493	5.629	1.00	0.00	C
ATOM	785	C	ASP A	56153.436	-10.937	5.235	1.00	0.00	C
ATOM	786	O	ASP A	56153.564	-10.234	4.232	1.00	0.00	O
ATOM	787	CB	ASP A	56151.531	-12.390	4.514	1.00	0.00	C
ATOM	788	CG	ASP A	56150.706	-13.544	5.048	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.498	-13.344	5.299	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.266	-14.647	5.216	1.00	0.00	O
ATOM	791	H	ASP A	56150.472	-10.164	5.228	1.00	0.00	H
ATOM	792	HA	ASP A	56152.181	-12.079	6.529	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.910	-11.802	3.855	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.361	-12.794	3.952	1.00	0.00	H
ATOM	795	N	GLU A	57154.450	-11.257	6.030	1.00	0.00	N
ATOM	796	CA	GLU A	57155.806	-10.789	5.765	1.00	0.00	C
ATOM	797	C	GLU A	57156.388	-11.479	4.536	1.00	0.00	C
ATOM	798	O	GLU A	57156.885	-12.602	4.617	1.00	0.00	O

ATOM	799	CB	GLU A	57156.703	-11.045	6.978	1.00	0.00	C
ATOM	800	CG	GLU A	57156.726	-9.893	7.971	1.00	0.00	C
ATOM	801	CD	GLU A	57158.025	-9.819	8.748	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.589	-8.710	8.857	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.478	-10.870	9.247	1.00	0.00	O
ATOM	804	H	GLU A	57154.285	-11.820	6.814	1.00	0.00	H
ATOM	805	HA	GLU A	57155.760	-9.727	5.580	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.352	-11.927	7.492	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.712	-11.216	6.636	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.593	-8.967	7.431	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.912	-10.021	8.669	1.00	0.00	H
ATOM	810	N	CYS A	58156.324	-10.798	3.395	1.00	0.00	N
ATOM	811	CA	CYS A	58156.845	-11.345	2.148	1.00	0.00	C
ATOM	812	C	CYS A	58158.162	-10.675	1.768	1.00	0.00	C
ATOM	813	O	CYS A	58158.232	-9.454	1.635	1.00	0.00	O
ATOM	814	CB	CYS A	58155.824	-11.166	1.023	1.00	0.00	C
ATOM	815	SG	CYS A	58155.774	-12.540	-0.153	1.00	0.00	S
ATOM	816	H	CYS A	58155.917	-9.907	3.394	1.00	0.00	H
ATOM	817	HA	CYS A	58157.022	-12.400	2.297	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.839	-11.066	1.453	1.00	0.00	H
ATOM	819	2HB	CYS A	58156.063	-10.269	0.471	1.00	0.00	H
ATOM	820	HG	CYS A	58154.908	-12.949	-0.091	1.00	0.00	H
ATOM	821	N	ALAA	59159.202	-11.483	1.594	1.00	0.00	N
ATOM	822	CA	ALAA	59160.516	-10.969	1.228	1.00	0.00	C
ATOM	823	C	ALAA	59160.463	-10.227	-0.103	1.00	0.00	C
ATOM	824	O	ALAA	59159.799	-10.664	-1.042	1.00	0.00	O
ATOM	825	CB	ALAA	59161.527	-12.103	1.163	1.00	0.00	C

ATOM	826	H	ALA A	59159.083	-12.449	1.713	1.00	0.00	H
ATOM	827	HA	ALA A	59160.831	-10.282	2.000	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.646	-12.421	0.137	1.00	0.00	H
ATOM	829	2HB	ALA A	59161.176	-12.934	1.758	1.00	0.00	H
ATOM	830	3HB	ALA A	59162.477	-11.762	1.545	1.00	0.00	H
ATOM	831	N	GLY A	60161.170	-9.103	-0.175	1.00	0.00	N
ATOM	832	CA	GLY A	60161.191	-8.318	-1.396	1.00	0.00	C
ATOM	833	C	GLY A	60160.533	-6.963	-1.226	1.00	0.00	C
ATOM	834	O	GLY A	60160.888	-6.002	-1.909	1.00	0.00	O
ATOM	835	H	GLY A	60161.680	-8.804	0.606	1.00	0.00	H
ATOM	836	1HA	GLY A	60162.216	-8.172	-1.699	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.671	-8.863	-2.171	1.00	0.00	H
ATOM	838	N	CYS A	61159.571	-6.885	-0.311	1.00	0.00	N
ATOM	839	CA	CYS A	61158.862	-5.638	-0.052	1.00	0.00	C
ATOM	840	C	CYS A	61159.720	-4.685	0.773	1.00	0.00	C
ATOM	841	O	CYS A	61160.794	-5.054	1.249	1.00	0.00	O
ATOM	842	CB	CYS A	61157.545	-5.916	0.675	1.00	0.00	C
ATOM	843	SG	CYS A	61156.398	-6.962	-0.252	1.00	0.00	S
ATOM	844	H	CYS A	61159.333	-7.686	0.202	1.00	0.00	H
ATOM	845	HA	CYS A	61158.646	-5.176	-1.004	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.757	-6.412	1.610	1.00	0.00	H
ATOM	847	2HB	CYS A	61157.047	-4.979	0.875	1.00	0.00	H
ATOM	848	HG	CYS A	61156.641	-6.919	-1.180	1.00	0.00	H
ATOM	849	N	THR A	62159.239	-3.456	0.939	1.00	0.00	N
ATOM	850	CA	THR A	62159.963	-2.450	1.708	1.00	0.00	C
ATOM	851	C	THR A	62159.381	-2.315	3.111	1.00	0.00	C
ATOM	852	O	THR A	62158.425	-3.005	3.466	1.00	0.00	O

ATOM	853	CB	THR A	62159.916	-1.100	0.991	1.00	0.00	C
ATOM	854	OG1	THR A	62158.579	-0.739	0.691	1.00	0.00	O
ATOM	855	CG2	THR A	62160.698	-1.081	-0.304	1.00	0.00	C
ATOM	856	H	THR A	62158.378	-3.222	0.536	1.00	0.00	H
ATOM	857	HA	THR A	62160.991	-2.770	1.786	1.00	0.00	H
ATOM	858	HB	THR A	62160.333	-0.344	1.641	1.00	0.00	H
ATOM	859	HG1	THR A	62158.526	0.211	0.559	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.753	-1.009	-0.086	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.394	-0.231	-0.896	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.506	-1.990	-0.854	1.00	0.00	H
ATOM	863	N	ASP A	63159.965	-1.423	3.905	1.00	0.00	N
ATOM	864	CA	ASP A	63159.504	-1.198	5.270	1.00	0.00	C
ATOM	865	C	ASP A	63158.813	0.156	5.394	1.00	0.00	C
ATOM	866	O	ASP A	63158.857	0.791	6.448	1.00	0.00	O
ATOM	867	CB	ASP A	63160.679	-1.275	6.246	1.00	0.00	C
ATOM	868	CG	ASP A	63161.788	-0.301	5.895	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.497	0.713	5.227	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.946	-0.553	6.289	1.00	0.00	O
ATOM	871	H	ASP A	63160.723	-0.904	3.565	1.00	0.00	H
ATOM	872	HA	ASP A	63158.795	-1.975	5.513	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.328	-1.048	7.242	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.086	-2.276	6.232	1.00	0.00	H
ATOM	875	N	GLY A	64158.175	0.590	4.313	1.00	0.00	N
ATOM	876	CA	GLY A	64157.484	1.866	4.322	1.00	0.00	C
ATOM	877	C	GLY A	64158.202	2.922	3.504	1.00	0.00	C
ATOM	878	O	GLY A	64158.319	4.072	3.928	1.00	0.00	O
ATOM	879	H	GLY A	64158.174	0.041	3.502	1.00	0.00	H

ATOM	880	1HA	GLY A	64156.491	1.728	3.919	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.400	2.211	5.342	1.00	0.00	H
ATOM	882	N	THR A	65158.685	2.531	2.330	1.00	0.00	N
ATOM	883	CA	THR A	65159.396	3.451	1.451	1.00	0.00	C
ATOM	884	C	THR A	65158.996	3.233	-0.005	1.00	0.00	C
ATOM	885	O	THR A	65159.192	2.152	-0.558	1.00	0.00	O
ATOM	886	CB	THR A	65160.908	3.273	1.608	1.00	0.00	C
ATOM	887	OG1	THR A	65161.280	1.926	1.381	1.00	0.00	O
ATOM	888	CG2	THR A	65161.417	3.668	2.977	1.00	0.00	C
ATOM	889	H	THR A	65158.560	1.600	2.047	1.00	0.00	H
ATOM	890	HA	THR A	65159.129	4.457	1.738	1.00	0.00	H
ATOM	891	HB	THR A	65161.410	3.892	0.877	1.00	0.00	H
ATOM	892	HG1	THR A	65161.430	1.788	0.444	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.950	4.592	3.283	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.488	3.801	2.939	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.177	2.890	3.688	1.00	0.00	H
ATOM	896	N	PHE A	66158.432	4.269	-0.619	1.00	0.00	N
ATOM	897	CA	PHE A	66158.003	4.191	-2.010	1.00	0.00	C
ATOM	898	C	PHE A	66158.983	4.919	-2.924	1.00	0.00	C
ATOM	899	O	PHE A	66159.112	6.141	-2.864	1.00	0.00	O
ATOM	900	CB	PHE A	66156.603	4.786	-2.169	1.00	0.00	C
ATOM	901	CG	PHE A	66155.984	4.516	-3.511	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.770	3.216	-3.941	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.616	5.562	-4.341	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.201	2.966	-5.176	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.047	5.318	-5.577	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.839	4.018	-5.994	1.00	0.00	C

ATOM	907	H	PHE A	66158.302	5.105	-0.125	1.00	0.00	H
ATOM	908	HA	PHE A	66157.975	3.148	-2.291	1.00	0.00	H
ATOM	909	1HB	PHE A	66155.954	4.366	-1.414	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.657	5.856	-2.035	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.053	2.393	-3.302	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.778	6.579	-4.016	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.040	1.948	-5.501	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.765	6.142	-6.214	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.394	3.824	-6.960	1.00	0.00	H
ATOM	916	N	ARG A	67159.672	4.160	-3.769	1.00	0.00	N
ATOM	917	CA	ARG A	67160.642	4.733	-4.696	1.00	0.00	C
ATOM	918	C	ARG A	67161.753	5.458	-3.942	1.00	0.00	C
ATOM	919	O	ARG A	67162.225	6.510	-4.373	1.00	0.00	O
ATOM	920	CB	ARG A	67159.949	5.699	-5.659	1.00	0.00	C
ATOM	921	CG	ARG A	67158.864	5.045	-6.499	1.00	0.00	C
ATOM	922	CD	ARG A	67158.302	6.010	-7.530	1.00	0.00	C
ATOM	923	NE	ARG A	67158.965	5.875	-8.825	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.894	4.783	-9.583	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.193	3.731	-9.182	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.527	4.744	-10.749	1.00	0.00	N
ATOM	927	H	ARG A	67159.526	3.191	-3.770	1.00	0.00	H
ATOM	928	HA	ARG A	67161.078	3.924	-5.262	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.500	6.498	-5.088	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.688	6.117	-6.326	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.283	4.192	-7.011	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.064	4.721	-5.849	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.248	5.810	-7.655	1.00	0.00	H

ATOM	934	2HD	ARG A	67158.436	7.019	-7.171	1.00	0.00	H
ATOM	935	HE	ARG A	67159.490	6.637	-9.146	1.00	0.00	H
ATOM	936	1HH1	ARG A	67157.713	3.753	-8.305	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.144	2.914	-9.756	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.057	5.534	-11.057	1.00	0.00	H
ATOM	939	2HH2	ARG A	67159.475	3.924	-11.318	1.00	0.00	H
ATOM	940	N	GLY A	68162.165	4.888	-2.814	1.00	0.00	N
ATOM	941	CA	GLY A	68163.216	5.494	-2.018	1.00	0.00	C
ATOM	942	C	GLY A	68162.744	6.731	-1.280	1.00	0.00	C
ATOM	943	O	GLY A	68163.533	7.634	-1.000	1.00	0.00	O
ATOM	944	H	GLY A	68161.751	4.050	-2.521	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.569	4.771	-1.298	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.033	5.766	-2.669	1.00	0.00	H
ATOM	947	N	THR A	69161.454	6.772	-0.962	1.00	0.00	N
ATOM	948	CA	THR A	69160.878	7.907	-0.252	1.00	0.00	C
ATOM	949	C	THR A	69160.006	7.437	0.908	1.00	0.00	C
ATOM	950	O	THR A	69158.823	7.148	0.730	1.00	0.00	O
ATOM	951	CB	THR A	69160.052	8.769	-1.208	1.00	0.00	C
ATOM	952	OG1	THR A	69160.652	8.810	-2.490	1.00	0.00	O
ATOM	953	CG2	THR A	69159.884	10.196	-0.734	1.00	0.00	C
ATOM	954	H	THR A	69160.876	6.021	-1.213	1.00	0.00	H
ATOM	955	HA	THR A	69161.691	8.500	0.141	1.00	0.00	H
ATOM	956	HB	THR A	69159.068	8.335	-1.309	1.00	0.00	H
ATOM	957	HG1	THR A	69161.498	9.260	-2.435	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.331	10.204	0.195	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.343	10.762	-1.479	1.00	0.00	H
ATOM	960	3HG2	THR A	69160.855	10.641	-0.579	1.00	0.00	H

ATOM	961	N	ARG A	70160.599	7.363	2.095	1.00	0.00 N
ATOM	962	CA	ARG A	70159.876	6.928	3.284	1.00	0.00 C
ATOM	963	C	ARG A	70158.715	7.867	3.589	1.00	0.00 C
ATOM	964	O	ARG A	70158.835	9.085	3.454	1.00	0.00 O
ATOM	965	CB	ARG A	70160.822	6.862	4.485	1.00	0.00 C
ATOM	966	CG	ARG A	70160.172	6.303	5.740	1.00	0.00 C
ATOM	967	CD	ARG A	70160.941	6.699	6.990	1.00	0.00 C
ATOM	968	NE	ARG A	70162.372	6.430	6.859	1.00	0.00 N
ATOM	969	CZ	ARG A	70163.254	6.623	7.838	1.00	0.00 C
ATOM	970	NH1	ARG A	70162.857	7.084	9.017	1.00	0.00 N
ATOM	971	NH2	ARG A	70164.536	6.353	7.637	1.00	0.00 N
ATOM	972	H	ARG A	70161.545	7.608	2.172	1.00	0.00 H
ATOM	973	HA	ARG A	70159.484	5.941	3.091	1.00	0.00 H
ATOM	974	1HB	ARG A	70161.664	6.235	4.231	1.00	0.00 H
ATOM	975	2HB	ARG A	70161.179	7.857	4.703	1.00	0.00 H
ATOM	976	1HG	ARG A	70159.165	6.686	5.813	1.00	0.00 H
ATOM	977	2HG	ARG A	70160.145	5.225	5.671	1.00	0.00 H
ATOM	978	1HD	ARG A	70160.798	7.754	7.166	1.00	0.00 H
ATOM	979	2HD	ARG A	70160.554	6.138	7.828	1.00	0.00 H
ATOM	980	HE	ARG A	70162.692	6.088	5.999	1.00	0.00 H
ATOM	981	1HH1	ARG A	70161.891	7.290	9.177	1.00	0.00 H
ATOM	982	2HH1	ARG A	70163.524	7.227	9.748	1.00	0.00 H
ATOM	983	1HH2	ARG A	70164.840	6.005	6.750	1.00	0.00 H
ATOM	984	2HH2	ARG A	70165.199	6.497	8.370	1.00	0.00 H
ATOM	985	N	TYR A	71157.589	7.295	4.002	1.00	0.00 N
ATOM	986	CA	TYR A	71156.404	8.081	4.326	1.00	0.00 C
ATOM	987	C	TYR A	71155.921	7.778	5.741	1.00	0.00 C

ATOM	988	O	TYR A	71155.586	8.687	6.501	1.00	0.00	O
ATOM	989	CB	TYR A	71155.286	7.795	3.322	1.00	0.00	C
ATOM	990	CG	TYR A	71155.489	8.465	1.982	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.380	7.745	0.799	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.793	9.819	1.900	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.565	8.354	-0.427	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.980	10.435	0.677	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.865	9.698	-0.483	1.00	0.00	C
ATOM	996	OH	TYR A	71156.051	10.308	-1.702	1.00	0.00	O
ATOM	997	H	TYR A	71157.554	6.319	4.091	1.00	0.00	H
ATOM	998	HA	TYR A	71156.672	9.125	4.266	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.226	6.730	3.154	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.349	8.144	3.729	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.144	6.692	0.846	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.882	10.393	2.810	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.475	7.777	-1.335	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.215	11.488	0.635	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.907	10.059	-2.058	1.00	0.00	H
ATOM	1006	N	PHE A	72155.889	6.496	6.088	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.447	6.073	7.412	1.00	0.00	C
ATOM	1008	C	PHE A	72156.408	5.047	8.004	1.00	0.00	C
ATOM	1009	O	PHE A	72157.303	4.553	7.320	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.037	5.485	7.338	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.868	4.464	6.249	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.748	4.858	4.926	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.831	3.112	6.548	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.593	3.921	3.921	1.00	0.00	C

ATOM	1015	CE2	PHE A	72153.677	2.171	5.548	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.558	2.576	4.234	1.00	0.00	C
ATOM	1017	H	PHE A	72156.168	5.817	5.438	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.431	6.944	8.049	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.803	5.009	8.278	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.331	6.283	7.159	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.776	5.909	4.680	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.925	2.795	7.576	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.499	4.240	2.894	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.649	1.120	5.795	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.436	1.841	3.450	1.00	0.00	H
ATOM	1026	N	THR A	73156.216	4.732	9.281	1.00	0.00	N
ATOM	1027	CA	THR A	73157.064	3.765	9.966	1.00	0.00	C
ATOM	1028	C	THR A	73156.309	2.466	10.227	1.00	0.00	C
ATOM	1029	O	THR A	73155.430	2.409	11.086	1.00	0.00	O
ATOM	1030	CB	THR A	73157.573	4.346	11.286	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.559	5.762	11.249	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.981	3.910	11.630	1.00	0.00	C
ATOM	1033	H	THR A	73155.485	5.160	9.774	1.00	0.00	H
ATOM	1034	HA	THR A	73157.909	3.554	9.327	1.00	0.00	H
ATOM	1035	HB	THR A	73156.922	4.021	12.085	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.401	6.105	12.132	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.622	4.056	10.773	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.978	2.865	11.903	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.348	4.498	12.457	1.00	0.00	H
ATOM	1040	N	CYS A	74156.658	1.424	9.478	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.013	0.125	9.628	1.00	0.00	C

ATOM	1042	C	CYS A	74157.050	-0.992	9.703	1.00	0.00	C
ATOM	1043	O	CYS A	74158.254	-0.735	9.695	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.055	-0.130	8.464	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.368	0.453	8.755	1.00	0.00	S
ATOM	1046	H	CYS A	74157.366	1.531	8.810	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.450	0.139	10.550	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.428	0.373	7.584	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.008	-1.192	8.272	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.059	0.879	7.951	1.00	0.00	H
ATOM	1051	N	ALA A	75156.573	-2.230	9.775	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.459	-3.386	9.850	1.00	0.00	C
ATOM	1053	C	ALA A	75158.186	-3.607	8.528	1.00	0.00	C
ATOM	1054	O	ALA A	75157.865	-2.980	7.520	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.671	-4.629	10.237	1.00	0.00	C
ATOM	1056	H	ALA A	75155.604	-2.370	9.777	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.189	-3.196	10.623	1.00	0.00	H
ATOM	1058	1HB	ALA A	75155.655	-4.535	9.885	1.00	0.00	H
ATOM	1059	2HB	ALA A	75156.672	-4.736	11.311	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.129	-5.498	9.787	1.00	0.00	H
ATOM	1061	N	LEU A	76159.167	-4.503	8.542	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.941	-4.808	7.343	1.00	0.00	C
ATOM	1063	C	LEU A	76159.236	-5.858	6.492	1.00	0.00	C
ATOM	1064	O	LEU A	76158.624	-6.787	7.019	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.340	-5.296	7.724	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.346	-4.192	8.050	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.333	-4.663	9.106	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.078	-3.752	6.792	1.00	0.00	C

ATOM	1069	H	LEU A	76159.377	-4.970	9.377	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.032	-3.898	6.768	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.250	-5.940	8.588	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.731	-5.878	6.903	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.816	-3.337	8.447	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.489	-5.726	9.004	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.938	-4.450	10.089	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.273	-4.147	8.976	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.303	-2.697	6.855	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.455	-3.935	5.930	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.998	-4.310	6.696	1.00	0.00	H
ATOM	1080	N	LYS A	77159.327	-5.706	5.175	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.698	-6.642	4.250	1.00	0.00	C
ATOM	1082	C	LYS A	77157.182	-6.642	4.423	1.00	0.00	C
ATOM	1083	O	LYS A	77156.538	-7.688	4.339	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.248	-8.053	4.466	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.765	-8.109	4.551	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.413	-7.639	3.259	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.826	-7.132	3.496	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.834	-5.847	4.248	1.00	0.00	N
ATOM	1089	H	LYS A	77159.830	-4.943	4.816	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.934	-6.323	3.246	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.843	-8.448	5.386	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.932	-8.680	3.646	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.094	-7.472	5.358	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.068	-9.127	4.748	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.452	-8.467	2.566	1.00	0.00	H

ATOM	1096	2HD	LYS A	77160.818	-6.842	2.838	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.371	-7.872	4.061	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.307	-6.984	2.540	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.959	-5.750	4.801	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.903	-5.046	3.588	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.648	-5.817	4.897	1.00	0.00	H
ATOM	1102	N	LYS A	78156.620	-5.463	4.664	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.179	-5.326	4.848	1.00	0.00	C
ATOM	1104	C	LYS A	78154.704	-3.943	4.414	1.00	0.00	C
ATOM	1105	O	LYS A	78153.844	-3.341	5.056	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.805	-5.573	6.310	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.324	-6.893	6.858	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.929	-7.085	8.313	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.688	-7.957	8.445	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.655	-7.323	9.310	1.00	0.00	N
ATOM	1111	H	LYS A	78157.186	-4.665	4.720	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.695	-6.070	4.232	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.211	-4.774	6.913	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.729	-5.569	6.400	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.912	-7.701	6.272	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.401	-6.904	6.782	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.745	-7.558	8.838	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.728	-6.119	8.752	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.272	-8.121	7.463	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.975	-8.905	8.877	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.069	-7.058	10.226	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78151.870	-7.986	9.474	1.00	0.00	H

ATOM	1123	3HZ	LYS A	78152.279	-6.468	8.850	1.00	0.00	H
ATOM	1124	N	ALA A	79155.270	-3.445	3.320	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.904	-2.132	2.800	1.00	0.00	C
ATOM	1126	C	ALA A	79154.645	-2.189	1.298	1.00	0.00	C
ATOM	1127	O	ALA A	79155.565	-2.390	0.506	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.996	-1.120	3.111	1.00	0.00	C
ATOM	1129	H	ALA A	79155.950	-3.972	2.850	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.999	-1.816	3.300	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.440	-1.352	4.068	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.568	-0.129	3.145	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.752	-1.159	2.342	1.00	0.00	H
ATOM	1134	N	LEU A	80153.385	-2.009	0.914	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.003	-2.039	-0.493	1.00	0.00	C
ATOM	1136	C	LEU A	80152.162	-0.819	-0.854	1.00	0.00	C
ATOM	1137	O	LEU A	80151.115	-0.574	-0.254	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.226	-3.319	-0.804	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.701	-3.427	-2.237	1.00	0.00	C
ATOM	1140	CD1	LEU A	80152.848	-3.637	-3.212	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.689	-4.557	-2.349	1.00	0.00	C
ATOM	1142	H	LEU A	80152.695	-1.853	1.592	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.908	-2.025	-1.082	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.874	-4.163	-0.616	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.384	-3.378	-0.131	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.204	-2.504	-2.500	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.181	-4.664	-3.160	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.665	-2.980	-2.954	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80152.513	-3.419	-4.216	1.00	0.00	H

ATOM	1150	1HD2	LEU A	80149.784	-4.284	-1.827	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.100	-5.454	-1.910	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.464	-4.736	-3.390	1.00	0.00	H
ATOM	1153	N	PHE A	81152.628	-0.055	-1.837	1.00	0.00	N
ATOM	1154	CA	PHE A	81151.917	1.141	-2.278	1.00	0.00	C
ATOM	1155	C	PHE A	81151.046	0.840	-3.493	1.00	0.00	C
ATOM	1156	O	PHE A	81151.391	0.000	-4.323	1.00	0.00	O
ATOM	1157	CB	PHE A	81152.911	2.255	-2.612	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.620	2.808	-1.408	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.678	2.121	-0.835	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.227	4.014	-0.849	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.333	2.628	0.272	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.877	4.525	0.257	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.931	3.831	0.819	1.00	0.00	C
ATOM	1164	H	PHE A	81153.468	-0.301	-2.277	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.284	1.467	-1.467	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.659	1.870	-3.289	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.383	3.067	-3.091	1.00	0.00	H
ATOM	1168	HD1	PHE A	81154.993	1.182	-1.263	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.403	4.557	-1.289	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.156	2.083	0.709	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.562	5.466	0.683	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.441	4.229	1.684	1.00	0.00	H
ATOM	1173	N	VAL A	82149.916	1.532	-3.589	1.00	0.00	N
ATOM	1174	CA	VAL A	82148.995	1.338	-4.703	1.00	0.00	C
ATOM	1175	C	VAL A	82148.135	2.578	-4.926	1.00	0.00	C
ATOM	1176	O	VAL A	82148.064	3.458	-4.069	1.00	0.00	O

ATOM	1177	CB	VAL A	82148.075	0.126	-4.469	1.00	0.00	C
ATOM	1178	CG1	VAL A	82148.849	-1.173	-4.634	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.433	0.201	-3.092	1.00	0.00	C
ATOM	1180	H	VAL A	82149.695	2.187	-2.895	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.581	1.153	-5.592	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.290	0.146	-5.210	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82148.168	-2.008	-4.578	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.586	-1.256	-3.849	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.345	-1.176	-5.594	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.004	-0.759	-2.842	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.658	0.951	-3.096	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.183	0.461	-2.359	1.00	0.00	H
ATOM	1189	N	LYS A	83147.485	2.641	-6.083	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.629	3.772	-6.419	1.00	0.00	C
ATOM	1191	C	LYS A	83145.383	3.794	-5.543	1.00	0.00	C
ATOM	1192	O	LYS A	83144.618	2.829	-5.507	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.229	3.716	-7.894	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.387	3.960	-8.849	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.976	3.731	-10.293	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.609	4.754	-11.223	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.043	4.144	-12.510	1.00	0.00	N
ATOM	1198	H	LYS A	83147.582	1.908	-6.726	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.192	4.677	-6.243	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.816	2.741	-8.106	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.474	4.465	-8.079	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.723	4.980	-8.738	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.193	3.285	-8.600	1.00	0.00	H

ATOM	1204	1HD	LYS A	83147.291	2.743	-10.595	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.901	3.806	-10.369	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.887	5.530	-11.428	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.468	5.185	-10.730	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.884	4.810	-13.292	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.502	3.275	-12.694	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.055	3.907	-12.470	1.00	0.00	H
ATOM	1211	N	LEU A	84145.185	4.902	-4.837	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.032	5.055	-3.958	1.00	0.00	C
ATOM	1213	C	LEU A	84142.731	4.965	-4.749	1.00	0.00	C
ATOM	1214	O	LEU A	84141.738	4.418	-4.270	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.106	6.394	-3.222	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.898	6.721	-2.344	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.905	5.865	-1.087	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.884	8.199	-1.986	1.00	0.00	C
ATOM	1219	H	LEU A	84145.831	5.635	-4.909	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.056	4.255	-3.236	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.988	6.390	-2.599	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.212	7.178	-3.958	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.993	6.500	-2.892	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.442	4.913	-1.296	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84142.357	6.370	-0.305	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.925	5.706	-0.766	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.845	8.481	-1.581	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.115	8.384	-1.249	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.682	8.783	-2.872	1.00	0.00	H
ATOM	1230	N	LYS A	85142.744	5.505	-5.963	1.00	0.00	N

ATOM	1231	CA	LYS A	85141.565	5.484	-6.822	1.00	0.00 C
ATOM	1232	C	LYS A	85141.184	4.054	-7.191	1.00	0.00 C
ATOM	1233	O	LYS A	85140.025	3.767	-7.489	1.00	0.00 O
ATOM	1234	CB	LYS A	85141.818	6.301	-8.091	1.00	0.00 C
ATOM	1235	CG	LYS A	85143.122	5.950	-8.790	1.00	0.00 C
ATOM	1236	CD	LYS A	85144.216	6.955	-8.467	1.00	0.00 C
ATOM	1237	CE	LYS A	85145.058	7.276	-9.693	1.00	0.00 C
ATOM	1238	NZ	LYS A	85144.401	8.286	-10.568	1.00	0.00 N
ATOM	1239	H	LYS A	85143.566	5.926	-6.291	1.00	0.00 H
ATOM	1240	HA	LYS A	85140.750	5.931	-6.274	1.00	0.00 H
ATOM	1241	1HB	LYS A	85141.006	6.129	-8.783	1.00	0.00 H
ATOM	1242	2HB	LYS A	85141.844	7.349	-7.832	1.00	0.00 H
ATOM	1243	1HG	LYS A	85143.441	4.971	-8.468	1.00	0.00 H
ATOM	1244	2HG	LYS A	85142.956	5.943	-9.858	1.00	0.00 H
ATOM	1245	1HD	LYS A	85143.762	7.866	-8.107	1.00	0.00 H
ATOM	1246	2HD	LYS A	85144.856	6.543	-7.701	1.00	0.00 H
ATOM	1247	1HE	LYS A	85146.012	7.662	-9.366	1.00	0.00 H
ATOM	1248	2HE	LYS A	85145.211	6.367	-10.256	1.00	0.00 H
ATOM	1249	1HZ	LYS A	85143.439	7.976	-10.812	1.00	0.00 H
ATOM	1250	2HZ	LYS A	85144.947	8.408	-11.445	1.00	0.00 H
ATOM	1251	3HZ	LYS A	85144.347	9.202	-10.078	1.00	0.00 H
ATOM	1252	N	SER A	86142.166	3.157	-7.170	1.00	0.00 N
ATOM	1253	CA	SER A	86141.931	1.758	-7.502	1.00	0.00 C
ATOM	1254	C	SER A	86141.941	0.892	-6.246	1.00	0.00 C
ATOM	1255	O	SER A	86142.372	-0.260	-6.278	1.00	0.00 O
ATOM	1256	CB	SER A	86142.990	1.260	-8.487	1.00	0.00 C
ATOM	1257	OG	SER A	86143.426	2.305	-9.340	1.00	0.00 O

ATOM	1258	H	SER A	86143.072	3.444	-6.925	1.00	0.00 H
ATOM	1259	HA	SER A	86140.959	1.686	-7.966	1.00	0.00 H
ATOM	1260	1HB	SER A	86143.840	0.883	-7.938	1.00	0.00 H
ATOM	1261	2HB	SER A	86142.572	0.469	-9.092	1.00	0.00 H
ATOM	1262	HG	SER A	86144.097	1.971	-9.940	1.00	0.00 H
ATOM	1263	N	CYS A	87141.463	1.457	-5.142	1.00	0.00 N
ATOM	1264	CA	CYS A	87141.416	0.736	-3.874	1.00	0.00 C
ATOM	1265	C	CYS A	87139.976	0.507	-3.430	1.00	0.00 C
ATOM	1266	O	CYS A	87139.114	1.366	-3.614	1.00	0.00 O
ATOM	1267	CB	CYS A	87142.176	1.512	-2.796	1.00	0.00 C
ATOM	1268	SG	CYS A	87143.976	1.402	-2.937	1.00	0.00 S
ATOM	1269	H	CYS A	87141.134	2.378	-5.180	1.00	0.00 H
ATOM	1270	HA	CYS A	87141.893	-0.221	-4.019	1.00	0.00 H
ATOM	1271	1HB	CYS A	87141.907	2.556	-2.857	1.00	0.00 H
ATOM	1272	2HB	CYS A	87141.898	1.130	-1.825	1.00	0.00 H
ATOM	1273	HG	CYS A	87144.247	0.545	-2.597	1.00	0.00 H
ATOM	1274	N	ARG A	88139.723	-0.658	-2.843	1.00	0.00 N
ATOM	1275	CA	ARG A	88138.386	-1.003	-2.371	1.00	0.00 C
ATOM	1276	C	ARG A	88138.324	-0.963	-0.845	1.00	0.00 C
ATOM	1277	O	ARG A	88139.294	-1.303	-0.169	1.00	0.00 O
ATOM	1278	CB	ARG A	88137.987	-2.392	-2.876	1.00	0.00 C
ATOM	1279	CG	ARG A	88137.161	-2.359	-4.153	1.00	0.00 C
ATOM	1280	CD	ARG A	88135.687	-2.609	-3.873	1.00	0.00 C
ATOM	1281	NE	ARG A	88134.830	-1.636	-4.546	1.00	0.00 N
ATOM	1282	CZ	ARG A	88134.636	-1.603	-5.863	1.00	0.00 C
ATOM	1283	NH1	ARG A	88135.235	-2.487	-6.651	1.00	0.00 N
ATOM	1284	NH2	ARG A	88133.840	-0.685	-6.393	1.00	0.00 N

ATOM	1285	H	ARG A	88140.451	-1.302	-2.725	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.697	-0.273	-2.768	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.883	-2.964	-3.067	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.409	-2.889	-2.111	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.270	-1.390	-4.616	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.525	-3.124	-4.824	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.431	-3.599	-4.220	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.519	-2.547	-2.809	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.375	-0.971	-3.987	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88135.837	-3.182	-6.258	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.086	-2.458	-7.639	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.385	-0.017	-5.803	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.693	-0.661	-7.382	1.00	0.00	H
ATOM	1298	N	PRO A	89137.177	-0.547	-0.281	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.999	-0.468	1.169	1.00	0.00	C
ATOM	1300	C	PRO A	89136.896	-1.846	1.815	1.00	0.00	C
ATOM	1301	O	PRO A	89135.910	-2.558	1.627	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.687	0.298	1.331	1.00	0.00	C
ATOM	1303	CG	PRO A	89134.940	0.078	0.064	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.968	-0.126	-1.013	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.802	0.085	1.634	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.144	-0.098	2.172	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.894	1.346	1.490	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.317	-0.798	0.154	1.00	0.00	H
ATOM	1309	2HG	PRO A	89134.335	0.946	-0.159	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.645	-0.899	-1.687	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.144	0.795	-1.548	1.00	0.00	H

ATOM	1312	N	ASP A	90137.923	-2.215	2.574	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.949	-3.506	3.249	1.00	0.00	C
ATOM	1314	C	ASP A	90136.957	-3.538	4.406	1.00	0.00	C
ATOM	1315	O	ASP A	90136.914	-2.621	5.226	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.359	-3.807	3.763	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.628	-5.294	3.883	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.606	-5.667	4.563	1.00	0.00	O
ATOM	1319	OD2	ASP A	90138.859	-6.086	3.298	1.00	0.00	O
ATOM	1320	H	ASP A	90138.680	-1.602	2.684	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.671	-4.262	2.530	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.082	-3.384	3.081	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.484	-3.357	4.737	1.00	0.00	H
ATOM	1324	N	SER A	91136.160	-4.600	4.465	1.00	0.00	N
ATOM	1325	CA	SER A	91135.168	-4.753	5.523	1.00	0.00	C
ATOM	1326	C	SER A	91135.540	-5.899	6.458	1.00	0.00	C
ATOM	1327	O	SER A	91134.669	-6.551	7.033	1.00	0.00	O
ATOM	1328	CB	SER A	91133.784	-5.001	4.920	1.00	0.00	C
ATOM	1329	OG	SER A	91132.762	-4.490	5.758	1.00	0.00	O
ATOM	1330	H	SER A	91136.242	-5.298	3.783	1.00	0.00	H
ATOM	1331	HA	SER A	91135.144	-3.834	6.090	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.720	-4.513	3.958	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.634	-6.063	4.796	1.00	0.00	H
ATOM	1334	HG	SER A	91132.352	-5.213	6.239	1.00	0.00	H
ATOM	1335	N	ARG A	92136.839	-6.140	6.603	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.327	-7.208	7.467	1.00	0.00	C
ATOM	1337	C	ARG A	92136.932	-6.957	8.918	1.00	0.00	C
ATOM	1338	O	ARG A	92136.465	-7.862	9.610	1.00	0.00	O

ATOM	1339	CB	ARG A	92138.848	-7.331	7.353	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.304	-8.143	6.151	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.560	-8.939	6.463	1.00	0.00	C
ATOM	1342	NE	ARG A	92140.258	-10.191	7.152	1.00	0.00	N
ATOM	1343	CZ	ARG A	92141.185	-10.991	7.674	1.00	0.00	C
ATOM	1344	NH1	ARG A	92142.471	-10.675	7.587	1.00	0.00	N
ATOM	1345	NH2	ARG A	92140.824	-12.112	8.285	1.00	0.00	N
ATOM	1346	H	ARG A	92137.486	-5.586	6.117	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.874	-8.132	7.138	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.272	-6.341	7.273	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.226	-7.805	8.246	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.517	-8.827	5.871	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.508	-7.469	5.331	1.00	0.00	H
ATOM	1352	1HD	ARG A	92141.067	-9.163	5.536	1.00	0.00	H
ATOM	1353	2HD	ARG A	92141.205	-8.340	7.089	1.00	0.00	H
ATOM	1354	HE	ARG A	92139.316	-10.448	7.230	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92142.750	-9.832	7.128	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92143.162	-11.281	7.981	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92139.856	-12.355	8.354	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92141.520	-12.714	8.678	1.00	0.00	H
ATOM	1359	N	PHE A	93137.123	-5.724	9.374	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.787	-5.354	10.744	1.00	0.00	C
ATOM	1361	C	PHE A	93135.505	-4.527	10.791	1.00	0.00	C
ATOM	1362	O	PHE A	93135.283	-3.763	11.731	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.936	-4.569	11.379	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.158	-5.402	11.646	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.645	-5.547	12.934	1.00	0.00	C

ATOM	1366	CD2 PHE A	93139.819	-6.038	10.607	1.00	0.00	C
ATOM	1367	CE1 PHE A	93140.769	-6.312	13.183	1.00	0.00	C
ATOM	1368	CE2 PHE A	93140.943	-6.805	10.849	1.00	0.00	C
ATOM	1369	CZ PHE A	93141.418	-6.941	12.139	1.00	0.00	C
ATOM	1370	H PHE A	93137.499	-5.046	8.774	1.00	0.00	H
ATOM	1371	HA PHE A	93136.634	-6.265	11.304	1.00	0.00	H
ATOM	1372	1HB PHE A	93138.221	-3.765	10.717	1.00	0.00	H
ATOM	1373	2HB PHE A	93137.604	-4.154	12.319	1.00	0.00	H
ATOM	1374	HD1 PHE A	93139.138	-5.056	13.751	1.00	0.00	H
ATOM	1375	HD2 PHE A	93139.448	-5.932	9.599	1.00	0.00	H
ATOM	1376	HE1 PHE A	93141.139	-6.417	14.193	1.00	0.00	H
ATOM	1377	HE2 PHE A	93141.449	-7.297	10.032	1.00	0.00	H
ATOM	1378	HZ PHE A	93142.297	-7.539	12.332	1.00	0.00	H
ATOM	1379	N ALA A	94134.664	-4.683	9.773	1.00	0.00	N
ATOM	1380	CA ALA A	94133.406	-3.949	9.703	1.00	0.00	C
ATOM	1381	C ALA A	94132.231	-4.835	10.103	1.00	0.00	C
ATOM	1382	O ALA A	94132.011	-5.894	9.515	1.00	0.00	O
ATOM	1383	CB ALA A	94133.200	-3.391	8.302	1.00	0.00	C
ATOM	1384	H ALA A	94134.893	-5.307	9.052	1.00	0.00	H
ATOM	1385	HA ALA A	94133.468	-3.118	10.391	1.00	0.00	H
ATOM	1386	1HB ALA A	94133.860	-3.896	7.613	1.00	0.00	H
ATOM	1387	2HB ALA A	94133.420	-2.333	8.301	1.00	0.00	H
ATOM	1388	3HB ALA A	94132.175	-3.545	7.999	1.00	0.00	H
ATOM	1389	N SER A	95131.480	-4.395	11.106	1.00	0.00	N
ATOM	1390	CA SER A	95130.327	-5.148	11.585	1.00	0.00	C
ATOM	1391	C SER A	95129.146	-4.997	10.631	1.00	0.00	C
ATOM	1392	O SER A	95129.018	-3.986	9.941	1.00	0.00	O

ATOM	1393	CB	SER A	95129.930	-4.679	12.986	1.00	0.00	C
ATOM	1394	OG	SER A	95130.871	-5.109	13.953	1.00	0.00	O
ATOM	1395	H	SER A	95131.706	-3.544	11.536	1.00	0.00	H
ATOM	1396	HA	SER A	95130.607	-6.191	11.629	1.00	0.00	H
ATOM	1397	1HB	SER A	95129.883	-3.600	13.002	1.00	0.00	H
ATOM	1398	2HB	SER A	95128.961	-5.085	13.238	1.00	0.00	H
ATOM	1399	HG	SER A	95131.760	-4.956	13.626	1.00	0.00	H
ATOM	1400	N	LEU A	96128.285	-6.009	10.599	1.00	0.00	N
ATOM	1401	CA	LEU A	96127.113	-5.988	9.731	1.00	0.00	C
ATOM	1402	C	LEU A	96125.874	-5.541	10.499	1.00	0.00	C
ATOM	1403	O	LEU A	96124.778	-6.061	10.288	1.00	0.00	O
ATOM	1404	CB	LEU A	96126.879	-7.371	9.121	1.00	0.00	C
ATOM	1405	CG	LEU A	96126.293	-7.366	7.708	1.00	0.00	C
ATOM	1406	CD1	LEU A	96126.771	-8.580	6.928	1.00	0.00	C
ATOM	1407	CD2	LEU A	96124.773	-7.329	7.763	1.00	0.00	C
ATOM	1408	H	LEU A	96128.439	-6.788	11.173	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.303	-5.282	8.936	1.00	0.00	H
ATOM	1410	1HB	LEU A	96127.825	-7.895	9.095	1.00	0.00	H
ATOM	1411	2HB	LEU A	96126.203	-7.915	9.764	1.00	0.00	H
ATOM	1412	HG	LEU A	96126.632	-6.481	7.189	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96126.084	-9.400	7.081	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96127.754	-8.865	7.272	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96126.814	-8.338	5.876	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96124.443	-6.314	7.924	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96124.427	-7.954	8.575	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96124.371	-7.695	6.831	1.00	0.00	H
ATOM	1419	N	GLN A	97126.055	-4.571	11.390	1.00	0.00	N

ATOM	1420	CA	GLN A	97124.950	-4.053	12.189	1.00	0.00	C
ATOM	1421	C	GLN A	97125.030	-2.532	12.306	1.00	0.00	C
ATOM	1422	O	GLN A	97125.704	-2.005	13.192	1.00	0.00	O
ATOM	1423	CB	GLN A	97124.963	-4.683	13.583	1.00	0.00	C
ATOM	1424	CG	GLN A	97124.766	-6.190	13.571	1.00	0.00	C
ATOM	1425	CD	GLN A	97125.082	-6.830	14.909	1.00	0.00	C
ATOM	1426	OE1	GLN A	97124.623	-6.370	15.954	1.00	0.00	O
ATOM	1427	NE2	GLN A	97125.870	-7.898	14.882	1.00	0.00	N
ATOM	1428	H	GLN A	97126.952	-4.196	11.513	1.00	0.00	H
ATOM	1429	HA	GLN A	97124.029	-4.318	11.695	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.913	-4.470	14.054	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.173	-4.242	14.172	1.00	0.00	H
ATOM	1432	1HG	GLN A	97123.736	-6.403	13.322	1.00	0.00	H
ATOM	1433	2HG	GLN A	97125.414	-6.620	12.821	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.200	-8.209	14.013	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97126.091	-8.332	15.732	1.00	0.00	H
ATOM	1436	N	PRO A	98124.340	-1.804	11.411	1.00	0.00	N
ATOM	1437	CA	PRO A	98124.338	-0.339	11.421	1.00	0.00	C
ATOM	1438	C	PRO A	98123.503	0.233	12.562	1.00	0.00	C
ATOM	1439	O	PRO A	98122.523	-0.378	12.993	1.00	0.00	O
ATOM	1440	CB	PRO A	98123.717	0.020	10.071	1.00	0.00	C
ATOM	1441	CG	PRO A	98122.837	-1.136	9.742	1.00	0.00	C
ATOM	1442	CD	PRO A	98123.510	-2.352	10.321	1.00	0.00	C
ATOM	1443	HA	PRO A	98125.341	0.058	11.477	1.00	0.00	H
ATOM	1444	1HB	PRO A	98123.151	0.936	10.164	1.00	0.00	H
ATOM	1445	2HB	PRO A	98124.495	0.145	9.334	1.00	0.00	H
ATOM	1446	1HG	PRO A	98121.864	-0.996	10.192	1.00	0.00	H

ATOM	1447	2HG	PRO A	98122.744	-1.234	8.671	1.00	0.00	H
ATOM	1448	1HD	PRO A	98122.773	-3.041	10.708	1.00	0.00	H
ATOM	1449	2HD	PRO A	98124.123	-2.834	9.576	1.00	0.00	H
ATOM	1450	N	SER A	99123.896	1.405	13.048	1.00	0.00	N
ATOM	1451	CA	SER A	99123.183	2.058	14.139	1.00	0.00	C
ATOM	1452	C	SER A	99121.936	2.769	13.625	1.00	0.00	C
ATOM	1453	O	SER A	99121.949	3.978	13.392	1.00	0.00	O
ATOM	1454	CB	SER A	99124.099	3.058	14.847	1.00	0.00	C
ATOM	1455	OG	SER A	99123.376	3.838	15.784	1.00	0.00	O
ATOM	1456	H	SER A	99124.685	1.842	12.662	1.00	0.00	H
ATOM	1457	HA	SER A	99122.885	1.297	14.843	1.00	0.00	H
ATOM	1458	1HB	SER A	99124.878	2.522	15.369	1.00	0.00	H
ATOM	1459	2HB	SER A	99124.543	3.717	14.115	1.00	0.00	H
ATOM	1460	HG	SER A	99123.687	4.746	15.754	1.00	0.00	H
ATOM	1461	N	GLY A	100120.858	2.011	13.452	1.00	0.00	N
ATOM	1462	CA	GLY A	100119.617	2.585	12.966	1.00	0.00	C
ATOM	1463	C	GLY A	100118.641	2.890	14.088	1.00	0.00	C
ATOM	1464	O	GLY A	100118.712	2.283	15.156	1.00	0.00	O
ATOM	1465	H	GLY A	100120.906	1.053	13.654	1.00	0.00	H
ATOM	1466	1HA	GLY A	100119.839	3.500	12.438	1.00	0.00	H
ATOM	1467	2HA	GLY A	100119.154	1.890	12.281	1.00	0.00	H
ATOM	1468	N	PRO A	101117.710	3.837	13.874	1.00	0.00	N
ATOM	1469	CA	PRO A	101116.718	4.211	14.886	1.00	0.00	C
ATOM	1470	C	PRO A	101115.686	3.114	15.120	1.00	0.00	C
ATOM	1471	O	PRO A	101115.170	2.959	16.227	1.00	0.00	O
ATOM	1472	CB	PRO A	101116.052	5.453	14.289	1.00	0.00	C
ATOM	1473	CG	PRO A	101116.233	5.309	12.818	1.00	0.00	C

ATOM	1474	CD	PRO A 101117.552	4.612	12.629	1.00	0.00	C
ATOM	1475	HA	PRO A 101117.188	4.468	15.824	1.00	0.00	H
ATOM	1476	1HB	PRO A 101115.006	5.468	14.559	1.00	0.00	H
ATOM	1477	2HB	PRO A 101116.539	6.341	14.661	1.00	0.00	H
ATOM	1478	1HG	PRO A 101115.431	4.713	12.405	1.00	0.00	H
ATOM	1479	2HG	PRO A 101116.254	6.283	12.353	1.00	0.00	H
ATOM	1480	1HD	PRO A 101117.515	3.959	11.769	1.00	0.00	H
ATOM	1481	2HD	PRO A 101118.349	5.334	12.521	1.00	0.00	H
ATOM	1482	N	SER A 102115.391	2.353	14.071	1.00	0.00	N
ATOM	1483	CA	SER A 102114.422	1.268	14.162	1.00	0.00	C
ATOM	1484	C	SER A 102115.026	-0.046	13.678	1.00	0.00	C
ATOM	1485	O	SER A 102115.981	-0.051	12.900	1.00	0.00	O
ATOM	1486	CB	SER A 102113.174	1.602	13.342	1.00	0.00	C
ATOM	1487	OG	SER A 102113.518	1.991	12.024	1.00	0.00	O
ATOM	1488	H	SER A 102115.837	2.524	13.215	1.00	0.00	H
ATOM	1489	HA	SER A 102114.140	1.160	15.200	1.00	0.00	H
ATOM	1490	1HB	SER A 102112.535	0.731	13.291	1.00	0.00	H
ATOM	1491	2HB	SER A 102112.640	2.412	13.817	1.00	0.00	H
ATOM	1492	HG	SER A 102114.158	1.372	11.664	1.00	0.00	H
ATOM	1493	N	SER A 103114.464	-1.158	14.141	1.00	0.00	N
ATOM	1494	CA	SER A 103114.948	-2.477	13.755	1.00	0.00	C
ATOM	1495	C	SER A 103113.793	-3.377	13.328	1.00	0.00	C
ATOM	1496	O	SER A 103113.006	-3.830	14.160	1.00	0.00	O
ATOM	1497	CB	SER A 103115.712	-3.123	14.912	1.00	0.00	C
ATOM	1498	OG	SER A 103116.827	-3.859	14.441	1.00	0.00	O
ATOM	1499	H	SER A 103113.705	-1.088	14.757	1.00	0.00	H
ATOM	1500	HA	SER A 103115.619	-2.352	12.918	1.00	0.00	H

ATOM	1501	1HB	SER A 1031	16.064	-2.352	15.583	1.00	0.00	H
ATOM	1502	2HB	SER A 1031	15.053	-3.791	15.447	1.00	0.00	H
ATOM	1503	HG	SER A 1031	17.625	-3.339	14.550	1.00	0.00	H
ATOM	1504	N	GLY A 1041	13.698	-3.632	12.027	1.00	0.00	N
ATOM	1505	CA	GLY A 1041	12.636	-4.477	11.513	1.00	0.00	C
ATOM	1506	C	GLY A 1041	13.033	-5.939	11.455	1.00	0.00	C
ATOM	1507	O	GLY A 1041	14.116	-6.238	10.910	1.00	0.00	O
ATOM	1508	OXT	GLY A 1041	12.263	-6.784	11.956	1.00	0.00	O
ATOM	1509	H	GLY A 1041	14.353	-3.244	11.412	1.00	0.00	H
ATOM	1510	1HA	GLY A 1041	11.770	-4.376	12.151	1.00	0.00	H
ATOM	1511	2HA	GLY A 1041	12.377	-4.146	10.518	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 15

ATOM 1	N	GLY A	1120.679	30.983	-5.770	1.00	0.00	N
ATOM 2	CA	GLY A	1121.946	31.445	-6.400	1.00	0.00	C
ATOM 3	C	GLY A	1122.753	30.303	-6.986	1.00	0.00	C
ATOM 4	O	GLY A	1122.711	30.059	-8.191	1.00	0.00	O
ATOM 5	1H	GLY A	1120.030	30.619	-6.498	1.00	0.00	H
ATOM 6	2H	GLY A	1120.217	31.771	-5.273	1.00	0.00	H
ATOM 7	3H	GLY A	1120.875	30.224	-5.086	1.00	0.00	H
ATOM 8	1HA	GLY A	1121.710	32.145	-7.187	1.00	0.00	H
ATOM 9	2HA	GLY A	1122.543	31.947	-5.653	1.00	0.00	H
ATOM10	N	SER A	2123.490	29.602	-6.130	1.00	0.00	N
ATOM11	CA	SER A	2124.311	28.479	-6.568	1.00	0.00	C
ATOM12	C	SER A	2124.545	27.497	-5.426	1.00	0.00	C

ATOM13	O	SER A	2125.589	27.525	-4.775	1.00	0.00	O
ATOM14	CB	SER A	2125.652	28.981	-7.110	1.00	0.00	C
ATOM15	OG	SER A	2126.417	27.915	-7.643	1.00	0.00	O
ATOM16	H	SER A	2123.482	29.846	-5.180	1.00	0.00	H
ATOM17	HA	SER A	2123.781	27.972	-7.360	1.00	0.00	H
ATOM18	1HB	SER A	2125.473	29.706	-7.890	1.00	0.00	H
ATOM19	2HB	SER A	2126.209	29.443	-6.309	1.00	0.00	H
ATOM20	HG	SER A	2127.121	28.270	-8.192	1.00	0.00	H
ATOM21	N	SER A	3123.568	26.629	-5.188	1.00	0.00	N
ATOM22	CA	SER A	3123.668	25.638	-4.124	1.00	0.00	C
ATOM23	C	SER A	3122.933	24.356	-4.503	1.00	0.00	C
ATOM24	O	SER A	3121.819	24.107	-4.040	1.00	0.00	O
ATOM25	CB	SER A	3123.099	26.199	-2.820	1.00	0.00	C
ATOM26	OG	SER A	3123.804	25.698	-1.698	1.00	0.00	O
ATOM27	H	SER A	3122.760	26.656	-5.742	1.00	0.00	H
ATOM28	HA	SER A	3124.714	25.409	-3.981	1.00	0.00	H
ATOM29	1HB	SER A	3123.181	27.276	-2.828	1.00	0.00	H
ATOM30	2HB	SER A	3122.060	25.918	-2.732	1.00	0.00	H
ATOM31	HG	SER A	3123.329	25.922	-0.893	1.00	0.00	H
ATOM32	N	GLY A	4123.562	23.546	-5.348	1.00	0.00	N
ATOM33	CA	GLY A	4122.953	22.300	-5.776	1.00	0.00	C
ATOM34	C	GLY A	4123.909	21.127	-5.686	1.00	0.00	C
ATOM35	O	GLY A	4125.081	21.243	-6.045	1.00	0.00	O
ATOM36	H	GLY A	4124.448	23.797	-5.684	1.00	0.00	H
ATOM37	1HA	GLY A	4122.095	22.100	-5.152	1.00	0.00	H
ATOM38	2HA	GLY A	4122.625	22.406	-6.799	1.00	0.00	H
ATOM39	N	SER A	5123.408	19.994	-5.206	1.00	0.00	N

ATOM40	CA	SER A	5124.225	18.794	-5.070	1.00	0.00	C
ATOM41	C	SER A	5123.495	17.574	-5.622	1.00	0.00	C
ATOM42	O	SER A	5122.346	17.311	-5.267	1.00	0.00	O
ATOM43	CB	SER A	5124.590	18.563	-3.603	1.00	0.00	C
ATOM44	OG	SER A	5125.250	19.693	-3.058	1.00	0.00	O
ATOM45	H	SER A	5122.466	19.964	-4.937	1.00	0.00	H
ATOM46	HA	SER A	5125.131	18.943	-5.637	1.00	0.00	H
ATOM47	1HB	SER A	5123.690	18.380	-3.034	1.00	0.00	H
ATOM48	2HB	SER A	5125.244	17.708	-3.527	1.00	0.00	H
ATOM49	HG	SER A	5124.629	20.205	-2.535	1.00	0.00	H
ATOM50	N	SER A	6124.170	16.830	-6.493	1.00	0.00	N
ATOM51	CA	SER A	6123.587	15.637	-7.094	1.00	0.00	C
ATOM52	C	SER A	6123.342	14.561	-6.042	1.00	0.00	C
ATOM53	O	SER A	6122.320	13.877	-6.064	1.00	0.00	O
ATOM54	CB	SER A	6124.502	15.094	-8.194	1.00	0.00	C
ATOM55	OG	SER A	6124.009	13.870	-8.709	1.00	0.00	O
ATOM56	H	SER A	6125.083	17.091	-6.737	1.00	0.00	H
ATOM57	HA	SER A	6122.640	15.917	-7.532	1.00	0.00	H
ATOM58	1HB	SER A	6124.560	15.813	-8.998	1.00	0.00	H
ATOM59	2HB	SER A	6125.489	14.929	-7.787	1.00	0.00	H
ATOM60	HG	SER A	6124.036	13.200	-8.024	1.00	0.00	H
ATOM61	N	GLY A	7124.290	14.415	-5.121	1.00	0.00	N
ATOM62	CA	GLY A	7124.159	13.420	-4.073	1.00	0.00	C
ATOM63	C	GLY A	7124.966	12.168	-4.358	1.00	0.00	C
ATOM64	O	GLY A	7124.410	11.130	-4.715	1.00	0.00	O
ATOM65	H	GLY A	7125.084	14.989	-5.153	1.00	0.00	H
ATOM66	1HA	GLY A	7124.496	13.848	-3.141	1.00	0.00	H

ATOM67	2HA	GLY A	7123.118	13.149	-3.978	1.00	0.00	H
ATOM68	N	LEU A	8126.282	12.267	-4.199	1.00	0.00	N
ATOM69	CA	LEU A	8127.168	11.136	-4.441	1.00	0.00	C
ATOM70	C	LEU A	8127.444	10.371	-3.149	1.00	0.00	C
ATOM71	O	LEU A	8127.690	9.166	-3.171	1.00	0.00	O
ATOM72	CB	LEU A	8128.485	11.614	-5.055	1.00	0.00	C
ATOM73	CG	LEU A	8128.357	12.279	-6.427	1.00	0.00	C
ATOM74	CD1	LEU A	8129.663	12.949	-6.820	1.00	0.00	C
ATOM75	CD2	LEU A	8127.944	11.256	-7.475	1.00	0.00	C
ATOM76	H	LEU A	8126.666	13.122	-3.912	1.00	0.00	H
ATOM77	HA	LEU A	8126.677	10.473	-5.139	1.00	0.00	H
ATOM78	1HB	LEU A	8128.937	12.324	-4.375	1.00	0.00	H
ATOM79	2HB	LEU A	8129.144	10.765	-5.151	1.00	0.00	H
ATOM80	HG	LEU A	8127.592	13.039	-6.381	1.00	0.00	H
ATOM81	1HD1	LEU A	8130.493	12.379	-6.430	1.00	0.00	H
ATOM82	2HD1	LEU A	8129.691	13.950	-6.412	1.00	0.00	H
ATOM83	3HD1	LEU A	8129.734	12.997	-7.896	1.00	0.00	H
ATOM84	1HD2	LEU A	8128.293	11.574	-8.446	1.00	0.00	H
ATOM85	2HD2	LEU A	8126.867	11.171	-7.490	1.00	0.00	H
ATOM86	3HD2	LEU A	8128.377	10.297	-7.233	1.00	0.00	H
ATOM87	N	ALA A	9127.401	11.081	-2.026	1.00	0.00	N
ATOM88	CA	ALA A	9127.645	10.468	-0.726	1.00	0.00	C
ATOM89	C	ALA A	9129.062	9.911	-0.640	1.00	0.00	C
ATOM90	O	ALA A	9129.282	8.825	-0.104	1.00	0.00	O
ATOM91	CB	ALA A	9126.626	9.371	-0.457	1.00	0.00	C
ATOM92	H	ALA A	9127.199	12.039	-2.073	1.00	0.00	H
ATOM93	HA	ALA A	9127.524	11.231	0.030	1.00	0.00	H

ATOM94	1HB	ALA A	9126.702	9.053	0.573	1.00	0.00	H
ATOM95	2HB	ALA A	9126.821	8.532	-1.108	1.00	0.00	H
ATOM96	3HB	ALA A	9125.632	9.749	-0.645	1.00	0.00	H
ATOM97	N	MET A	10130.020	10.663	-1.171	1.00	0.00	N
ATOM98	CA	MET A	10131.417	10.244	-1.155	1.00	0.00	C
ATOM99	C	MET A	10132.321	11.385	-0.688	1.00	0.00	C
ATOM	100	O	MET A	10133.052	11.975	-1.484	1.00	0.00 O
ATOM	101	CB	MET A	10131.845	9.772	-2.545	1.00	0.00 C
ATOM	102	CG	MET A	10130.834	8.856	-3.215	1.00	0.00 C
ATOM	103	SD	MET A	10131.476	8.092	-4.717	1.00	0.00 S
ATOM	104	CE	MET A	10131.040	9.327	-5.937	1.00	0.00 C
ATOM	105	H	MET A	10129.783	11.519	-1.583	1.00	0.00 H
ATOM	106	HA	MET A	10131.508	9.422	-0.461	1.00	0.00 H
ATOM	107	1HB	MET A	10131.990	10.636	-3.178	1.00	0.00 H
ATOM	108	2HB	MET A	10132.781	9.240	-2.460	1.00	0.00 H
ATOM	109	1HG	MET A	10130.562	8.074	-2.520	1.00	0.00 H
ATOM	110	2HG	MET A	10129.957	9.433	-3.468	1.00	0.00 H
ATOM	111	1HE	MET A	10131.068	10.308	-5.484	1.00	0.00 H
ATOM	112	2HE	MET A	10130.045	9.131	-6.310	1.00	0.00 H
ATOM	113	3HE	MET A	10131.744	9.290	-6.755	1.00	0.00 H
ATOM	114	N	PRO A	11132.281	11.710	0.616	1.00	0.00 N
ATOM	115	CA	PRO A	11133.100	12.784	1.185	1.00	0.00 C
ATOM	116	C	PRO A	11134.595	12.556	0.964	1.00	0.00 C
ATOM	117	O	PRO A	11135.309	13.464	0.541	1.00	0.00 O
ATOM	118	CB	PRO A	11132.769	12.754	2.681	1.00	0.00 C
ATOM	119	CG	PRO A	11131.476	12.019	2.785	1.00	0.00 C
ATOM	120	CD	PRO A	11131.439	11.057	1.632	1.00	0.00 C

ATOM	121	HA	PRO A	11132.825	13.745	0.774	1.00	0.00 H
ATOM	122	1HB	PRO A	11133.557	12.246	3.216	1.00	0.00 H
ATOM	123	2HB	PRO A	11132.675	13.766	3.049	1.00	0.00 H
ATOM	124	1HG	PRO A	11131.439	11.479	3.719	1.00	0.00 H
ATOM	125	2HG	PRO A	11130.653	12.714	2.720	1.00	0.00 H
ATOM	126	1HD	PRO A	11131.852	10.102	1.921	1.00	0.00 H
ATOM	127	2HD	PRO A	11130.427	10.938	1.273	1.00	0.00 H
ATOM	128	N	PRO A	12135.093	11.335	1.242	1.00	0.00 N
ATOM	129	CA	PRO A	12136.511	11.009	1.060	1.00	0.00 C
ATOM	130	C	PRO A	12136.986	11.295	-0.360	1.00	0.00 C
ATOM	131	O	PRO A	12138.180	11.481	-0.600	1.00	0.00 O
ATOM	132	CB	PRO A	12136.579	9.506	1.352	1.00	0.00 C
ATOM	133	CG	PRO A	12135.386	9.226	2.199	1.00	0.00 C
ATOM	134	CD	PRO A	12134.322	10.182	1.744	1.00	0.00 C
ATOM	135	HA	PRO A	12137.133	11.544	1.762	1.00	0.00 H
ATOM	136	1HB	PRO A	12136.543	8.956	0.423	1.00	0.00 H
ATOM	137	2HB	PRO A	12137.495	9.281	1.875	1.00	0.00 H
ATOM	138	1HG	PRO A	12135.063	8.206	2.050	1.00	0.00 H
ATOM	139	2HG	PRO A	12135.625	9.397	3.237	1.00	0.00 H
ATOM	140	1HD	PRO A	12133.730	9.741	0.954	1.00	0.00 H
ATOM	141	2HD	PRO A	12133.694	10.468	2.572	1.00	0.00 H
ATOM	142	N	GLY A	13136.044	11.330	-1.297	1.00	0.00 N
ATOM	143	CA	GLY A	13136.385	11.595	-2.682	1.00	0.00 C
ATOM	144	C	GLY A	13136.856	10.353	-3.413	1.00	0.00 C
ATOM	145	O	GLY A	13137.632	10.440	-4.365	1.00	0.00 O
ATOM	146	H	GLY A	13135.109	11.175	-1.047	1.00	0.00 H
ATOM	147	1HA	GLY A	13135.516	11.988	-3.187	1.00	0.00 H

ATOM	148	2HA	GLY A	13137.171	12.335	-2.713	1.00	0.00	H
ATOM	149	N	ASN A	14136.386	9.192	-2.966	1.00	0.00	N
ATOM	150	CA	ASN A	14136.765	7.926	-3.585	1.00	0.00	C
ATOM	151	C	ASN A	14135.536	7.063	-3.854	1.00	0.00	C
ATOM	152	O	ASN A	14135.169	6.832	-5.006	1.00	0.00	O
ATOM	153	CB	ASN A	14137.746	7.169	-2.688	1.00	0.00	C
ATOM	154	CG	ASN A	14138.934	8.021	-2.284	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.701	8.478	-3.130	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.092	8.236	-0.983	1.00	0.00	N
ATOM	157	H	ASN A	14135.771	9.186	-2.204	1.00	0.00	H
ATOM	158	HA	ASN A	14137.246	8.147	-4.524	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.234	6.851	-1.792	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.111	6.301	-3.216	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.442	7.841	-0.365	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.852	8.783	-0.694	1.00	0.00	H
ATOM	163	N	SER A	15134.904	6.590	-2.785	1.00	0.00	N
ATOM	164	CA	SER A	15133.717	5.753	-2.908	1.00	0.00	C
ATOM	165	C	SER A	15132.994	5.633	-1.570	1.00	0.00	C
ATOM	166	O	SER A	15131.949	6.251	-1.359	1.00	0.00	O
ATOM	167	CB	SER A	15134.098	4.363	-3.419	1.00	0.00	C
ATOM	168	OG	SER A	15134.120	4.328	-4.836	1.00	0.00	O
ATOM	169	H	SER A	15135.245	6.809	-1.892	1.00	0.00	H
ATOM	170	HA	SER A	15133.054	6.220	-3.620	1.00	0.00	H
ATOM	171	1HB	SER A	15135.079	4.102	-3.051	1.00	0.00	H
ATOM	172	2HB	SER A	15133.377	3.640	-3.065	1.00	0.00	H
ATOM	173	HG	SER A	15133.330	4.753	-5.179	1.00	0.00	H
ATOM	174	N	HIS A	16133.555	4.836	-0.667	1.00	0.00	N

ATOM	175	CA	HIS A	16132.964	4.636	0.651	1.00	0.00 C
ATOM	176	C	HIS A	16133.749	5.390	1.720	1.00	0.00 C
ATOM	177	O	HIS A	16133.304	6.427	2.214	1.00	0.00 O
ATOM	178	CB	HIS A	16132.919	3.145	0.992	1.00	0.00 C
ATOM	179	CG	HIS A	16131.652	2.471	0.564	1.00	0.00 C
ATOM	180	ND1	HIS A	16130.421	2.767	1.112	1.00	0.00 N
ATOM	181	CD2	HIS A	16131.427	1.513	-0.365	1.00	0.00 C
ATOM	182	CE1	HIS A	16129.495	2.018	0.539	1.00	0.00 C
ATOM	183	NE2	HIS A	16130.079	1.248	-0.360	1.00	0.00 N
ATOM	184	H	HIS A	16134.388	4.371	-0.893	1.00	0.00 H
ATOM	185	HA	HIS A	16131.956	5.020	0.623	1.00	0.00 H
ATOM	186	1HB	HIS A	16133.741	2.645	0.501	1.00	0.00 H
ATOM	187	2HB	HIS A	16133.016	3.024	2.060	1.00	0.00 H
ATOM	188	HD1	HIS A	16130.251	3.427	1.817	1.00	0.00 H
ATOM	189	HD2	HIS A	16132.171	1.042	-0.992	1.00	0.00 H
ATOM	190	HE1	HIS A	16128.440	2.033	0.768	1.00	0.00 H
ATOM	191	HE2	HIS A	16129.636	0.539	-0.870	1.00	0.00 H
ATOM	192	N	GLY A	17134.916	4.863	2.071	1.00	0.00 N
ATOM	193	CA	GLY A	17135.744	5.499	3.079	1.00	0.00 C
ATOM	194	C	GLY A	17137.137	4.907	3.143	1.00	0.00 C
ATOM	195	O	GLY A	17137.453	4.141	4.056	1.00	0.00 O
ATOM	196	H	GLY A	17135.219	4.035	1.643	1.00	0.00 H
ATOM	197	1HA	GLY A	17135.823	6.552	2.852	1.00	0.00 H
ATOM	198	2HA	GLY A	17135.271	5.384	4.044	1.00	0.00 H
ATOM	199	N	LEU A	18137.973	5.258	2.173	1.00	0.00 N
ATOM	200	CA	LEU A	18139.341	4.753	2.121	1.00	0.00 C
ATOM	201	C	LEU A	18140.327	5.797	2.636	1.00	0.00 C

ATOM	202	O	LEU A	18140.741	6.692	1.898	1.00	0.00	O
ATOM	203	CB	LEU A	18139.705	4.353	0.691	1.00	0.00	C
ATOM	204	CG	LEU A	18138.656	3.503	-0.030	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.908	3.505	-1.530	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.661	2.082	0.512	1.00	0.00	C
ATOM	207	H	LEU A	18137.663	5.870	1.473	1.00	0.00	H
ATOM	208	HA	LEU A	18139.396	3.881	2.756	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.866	5.253	0.117	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.629	3.795	0.720	1.00	0.00	H
ATOM	211	HG	LEU A	18137.678	3.926	0.146	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.015	3.179	-2.044	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.721	2.833	-1.760	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.163	4.505	-1.850	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.267	1.410	-0.236	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.048	2.032	1.399	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.672	1.792	0.757	1.00	0.00	H
ATOM	218	N	GLU A	19140.700	5.676	3.905	1.00	0.00	N
ATOM	219	CA	GLU A	19141.638	6.608	4.520	1.00	0.00	C
ATOM	220	C	GLU A	19142.630	5.870	5.412	1.00	0.00	C
ATOM	221	O	GLU A	19142.538	4.654	5.586	1.00	0.00	O
ATOM	222	CB	GLU A	19140.885	7.661	5.337	1.00	0.00	C
ATOM	223	CG	GLU A	19139.926	7.069	6.356	1.00	0.00	C
ATOM	224	CD	GLU A	19139.298	8.123	7.247	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.963	9.146	7.514	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.142	7.926	7.676	1.00	0.00	O
ATOM	227	H	GLU A	19140.335	4.942	4.443	1.00	0.00	H
ATOM	228	HA	GLU A	19142.181	7.101	3.728	1.00	0.00	H

ATOM	229	1HB	GLU A	19141.603	8.273	5.862	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.318	8.285	4.661	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.138	6.548	5.831	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.467	6.369	6.977	1.00	0.00	H
ATOM	233	N	VAL A	20143.579	6.610	5.974	1.00	0.00	N
ATOM	234	CA	VAL A	20144.588	6.024	6.848	1.00	0.00	C
ATOM	235	C	VAL A	20143.947	5.367	8.064	1.00	0.00	C
ATOM	236	O	VAL A	20143.135	5.980	8.758	1.00	0.00	O
ATOM	237	CB	VAL A	20145.602	7.081	7.324	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.750	6.422	8.073	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.120	7.892	6.146	1.00	0.00	C
ATOM	240	H	VAL A	20143.601	7.574	5.796	1.00	0.00	H
ATOM	241	HA	VAL A	20145.122	5.273	6.284	1.00	0.00	H
ATOM	242	HB	VAL A	20145.097	7.754	8.003	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.980	5.471	7.616	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.465	6.266	9.103	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.619	7.061	8.034	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.387	7.226	5.339	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.991	8.454	6.451	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.352	8.573	5.811	1.00	0.00	H
ATOM	249	N	GLY A	21144.315	4.116	8.318	1.00	0.00	N
ATOM	250	CA	GLY A	21143.767	3.397	9.453	1.00	0.00	C
ATOM	251	C	GLY A	21142.730	2.369	9.043	1.00	0.00	C
ATOM	252	O	GLY A	21142.569	1.342	9.702	1.00	0.00	O
ATOM	253	H	GLY A	21144.967	3.678	7.731	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.571	2.894	9.970	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.308	4.105	10.127	1.00	0.00	H

ATOM	256	N	SER A	22142.025	2.646	7.951	1.00	0.00 N
ATOM	257	CA	SER A	22140.997	1.738	7.453	1.00	0.00 C
ATOM	258	C	SER A	22141.600	0.694	6.520	1.00	0.00 C
ATOM	259	O	SER A	22142.542	0.977	5.779	1.00	0.00 O
ATOM	260	CB	SER A	22139.905	2.522	6.724	1.00	0.00 C
ATOM	261	OG	SER A	22139.368	3.539	7.552	1.00	0.00 O
ATOM	262	H	SER A	22142.199	3.481	7.468	1.00	0.00 H
ATOM	263	HA	SER A	22140.561	1.235	8.303	1.00	0.00 H
ATOM	264	1HB	SER A	22140.322	2.979	5.839	1.00	0.00 H
ATOM	265	2HB	SER A	22139.110	1.847	6.440	1.00	0.00 H
ATOM	266	HG	SER A	22139.019	3.147	8.356	1.00	0.00 H
ATOM	267	N	LEU A	23141.050	-0.515	6.559	1.00	0.00 N
ATOM	268	CA	LEU A	23141.534	-1.603	5.717	1.00	0.00 C
ATOM	269	C	LEU A	23141.086	-1.412	4.272	1.00	0.00 C
ATOM	270	O	LEU A	23139.981	-0.937	4.011	1.00	0.00 O
ATOM	271	CB	LEU A	23141.030	-2.948	6.245	1.00	0.00 C
ATOM	272	CG	LEU A	23141.349	-3.227	7.714	1.00	0.00 C
ATOM	273	CD1	LEU A	23140.291	-4.131	8.328	1.00	0.00 C
ATOM	274	CD2	LEU A	23142.729	-3.851	7.849	1.00	0.00 C
ATOM	275	H	LEU A	23140.302	-0.680	7.171	1.00	0.00 H
ATOM	276	HA	LEU A	23142.613	-1.595	5.752	1.00	0.00 H
ATOM	277	1HB	LEU A	23139.958	-2.982	6.118	1.00	0.00 H
ATOM	278	2HB	LEU A	23141.470	-3.733	5.649	1.00	0.00 H
ATOM	279	HG	LEU A	23141.348	-2.294	8.260	1.00	0.00 H
ATOM	280	1HD1	LEU A	23140.741	-4.742	9.095	1.00	0.00 H
ATOM	281	2HD1	LEU A	23139.871	-4.765	7.562	1.00	0.00 H
ATOM	282	3HD1	LEU A	23139.509	-3.525	8.763	1.00	0.00 H

ATOM	283	1HD2	LEU A	23143.207	-3.480	8.744	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.327	-3.594	6.987	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.635	-4.926	7.913	1.00	0.00	H
ATOM	286	N	ALA A	24141.952	-1.786	3.335	1.00	0.00	N
ATOM	287	CA	ALA A	24141.646	-1.657	1.917	1.00	0.00	C
ATOM	288	C	ALA A	24142.301	-2.774	1.110	1.00	0.00	C
ATOM	289	O	ALA A	24143.405	-3.216	1.426	1.00	0.00	O
ATOM	290	CB	ALA A	24142.097	-0.299	1.401	1.00	0.00	C
ATOM	291	H	ALA A	24142.817	-2.159	3.606	1.00	0.00	H
ATOM	292	HA	ALA A	24140.575	-1.723	1.799	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.698	-0.138	0.411	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.176	-0.267	1.364	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.737	0.475	2.064	1.00	0.00	H
ATOM	296	N	GLU A	25141.611	-3.226	0.068	1.00	0.00	N
ATOM	297	CA	GLU A	25142.125	-4.292	-0.784	1.00	0.00	C
ATOM	298	C	GLU A	25142.308	-3.804	-2.217	1.00	0.00	C
ATOM	299	O	GLU A	25141.520	-2.999	-2.715	1.00	0.00	O
ATOM	300	CB	GLU A	25141.178	-5.493	-0.760	1.00	0.00	C
ATOM	301	CG	GLU A	25141.860	-6.812	-1.087	1.00	0.00	C
ATOM	302	CD	GLU A	25141.004	-7.711	-1.959	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.828	-8.893	-1.599	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.509	-7.231	-3.001	1.00	0.00	O
ATOM	305	H	GLU A	25140.736	-2.833	-0.133	1.00	0.00	H
ATOM	306	HA	GLU A	25143.086	-4.595	-0.395	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.741	-5.574	0.224	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.391	-5.331	-1.482	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.783	-6.606	-1.607	1.00	0.00	H

ATOM	310	2HG	GLU A	25142.074	-7.330	-0.164	1.00	0.00	H
ATOM	311	N	VAL A	26143.353	-4.295	-2.876	1.00	0.00	N
ATOM	312	CA	VAL A	26143.639	-3.909	-4.252	1.00	0.00	C
ATOM	313	C	VAL A	26143.308	-5.041	-5.219	1.00	0.00	C
ATOM	314	O	VAL A	26143.243	-6.207	-4.827	1.00	0.00	O
ATOM	315	CB	VAL A	26145.118	-3.513	-4.429	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.362	-2.965	-5.827	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.530	-2.499	-3.372	1.00	0.00	C
ATOM	318	H	VAL A	26143.944	-4.934	-2.425	1.00	0.00	H
ATOM	319	HA	VAL A	26143.026	-3.052	-4.493	1.00	0.00	H
ATOM	320	HB	VAL A	26145.724	-4.398	-4.304	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.516	-3.785	-6.513	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.239	-2.335	-5.818	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.506	-2.388	-6.142	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.511	-2.751	-2.996	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.819	-2.513	-2.560	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.556	-1.512	-3.810	1.00	0.00	H
ATOM	327	N	LYS A	27143.097	-4.690	-6.483	1.00	0.00	N
ATOM	328	CA	LYS A	27142.772	-5.678	-7.506	1.00	0.00	C
ATOM	329	C	LYS A	27144.017	-6.081	-8.290	1.00	0.00	C
ATOM	330	O	LYS A	27143.958	-6.293	-9.501	1.00	0.00	O
ATOM	331	CB	LYS A	27141.711	-5.125	-8.460	1.00	0.00	C
ATOM	332	CG	LYS A	27140.976	-6.201	-9.241	1.00	0.00	C
ATOM	333	CD	LYS A	27140.368	-5.643	-10.518	1.00	0.00	C
ATOM	334	CE	LYS A	27140.343	-6.687	-11.623	1.00	0.00	C
ATOM	335	NZ	LYS A	27139.044	-7.413	-11.675	1.00	0.00	N
ATOM	336	H	LYS A	27143.163	-3.745	-6.734	1.00	0.00	H

ATOM	337	HA	LYS A	27142.375	-6.550	-7.009	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.985	-4.565	-7.888	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.189	-4.461	-9.165	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.671	-6.984	-9.498	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.187	-6.604	-8.624	1.00	0.00	H
ATOM	342	1HD	LYS A	27139.356	-5.326	-10.315	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.955	-4.798	-10.846	1.00	0.00	H
ATOM	344	1HE	LYS A	27140.507	-6.194	-12.570	1.00	0.00	H
ATOM	345	2HE	LYS A	27141.137	-7.398	-11.447	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.370	-6.896	-12.277	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.643	-7.495	-10.720	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.182	-8.367	-12.065	1.00	0.00	H
ATOM	349	N	GLU A	28145.141	-6.187	-7.591	1.00	0.00	N
ATOM	350	CA	GLU A	28146.401	-6.566	-8.222	1.00	0.00	C
ATOM	351	C	GLU A	28146.446	-8.068	-8.485	1.00	0.00	C
ATOM	352	O	GLU A	28145.486	-8.786	-8.207	1.00	0.00	O
ATOM	353	CB	GLU A	28147.582	-6.154	-7.340	1.00	0.00	C
ATOM	354	CG	GLU A	28148.687	-5.437	-8.100	1.00	0.00	C
ATOM	355	CD	GLU A	28150.071	-5.885	-7.675	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.576	-5.368	-6.655	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.652	-6.753	-8.360	1.00	0.00	O
ATOM	358	H	GLU A	28145.125	-6.005	-6.628	1.00	0.00	H
ATOM	359	HA	GLU A	28146.468	-6.045	-9.165	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.223	-5.494	-6.564	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.003	-7.037	-6.883	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.570	-5.638	-9.155	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.598	-4.376	-7.924	1.00	0.00	H

ATOM	364	N	ASN A	29147.567	-8.535	-9.023	1.00	0.00	N
ATOM	365	CA	ASN A	29147.737	-9.952	-9.323	1.00	0.00	C
ATOM	366	C	ASN A	29147.676	-10.789	-8.047	1.00	0.00	C
ATOM	367	O	ASN A	29146.827	-11.670	-7.913	1.00	0.00	O
ATOM	368	CB	ASN A	29149.069	-10.187	-10.039	1.00	0.00	C
ATOM	369	CG	ASN A	29148.909	-10.256	-11.545	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.911	-11.338	-12.132	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.770	-9.097	-12.180	1.00	0.00	N
ATOM	372	H	ASN A	29148.298	-7.914	-9.221	1.00	0.00	H
ATOM	373	HA	ASN A	29146.930	-10.252	-9.975	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.744	-9.378	-9.805	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.497	-11.118	-9.697	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.778	-8.275	-11.647	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.665	-9.113	-13.154	1.00	0.00	H
ATOM	378	N	PRO A	30148.579	-10.522	-7.087	1.00	0.00	N
ATOM	379	CA	PRO A	30148.624	-11.252	-5.818	1.00	0.00	C
ATOM	380	C	PRO A	30147.529	-10.802	-4.852	1.00	0.00	C
ATOM	381	O	PRO A	30147.581	-9.694	-4.319	1.00	0.00	O
ATOM	382	CB	PRO A	30150.002	-10.898	-5.265	1.00	0.00	C
ATOM	383	CG	PRO A	30150.284	-9.540	-5.809	1.00	0.00	C
ATOM	384	CD	PRO A	30149.627	-9.485	-7.165	1.00	0.00	C
ATOM	385	HA	PRO A	30148.557	-12.319	-5.972	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.971	-10.894	-4.186	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.729	-11.619	-5.609	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.862	-8.790	-5.158	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.351	-9.397	-5.905	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.194	-8.511	-7.333	1.00	0.00	H

ATOM	391	2HD	PRO A	30150.342	-9.719	-7.938	1.00	0.00	H
ATOM	392	N	PRO A	31146.518	-11.657	-4.609	1.00	0.00	N
ATOM	393	CA	PRO A	31145.415	-11.332	-3.699	1.00	0.00	C
ATOM	394	C	PRO A	31145.868	-11.257	-2.244	1.00	0.00	C
ATOM	395	O	PRO A	31145.707	-12.211	-1.484	1.00	0.00	O
ATOM	396	CB	PRO A	31144.435	-12.490	-3.895	1.00	0.00	C
ATOM	397	CG	PRO A	31145.275	-13.621	-4.374	1.00	0.00	C
ATOM	398	CD	PRO A	31146.370	-13.002	-5.197	1.00	0.00	C
ATOM	399	HA	PRO A	31144.939	-10.401	-3.973	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.954	-12.723	-2.956	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.690	-12.215	-4.628	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.694	-14.151	-3.530	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.682	-14.290	-4.981	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.284	-13.570	-5.097	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.074	-12.939	-6.233	1.00	0.00	H
ATOM	406	N	PHE A	32146.434	-10.116	-1.864	1.00	0.00	N
ATOM	407	CA	PHE A	32146.910	-9.917	-0.501	1.00	0.00	C
ATOM	408	C	PHE A	32145.913	-9.094	0.309	1.00	0.00	C
ATOM	409	O	PHE A	32144.931	-8.584	-0.232	1.00	0.00	O
ATOM	410	CB	PHE A	32148.272	-9.220	-0.511	1.00	0.00	C
ATOM	411	CG	PHE A	32148.324	-8.017	-1.409	1.00	0.00	C
ATOM	412	CD1	PHE A	32149.118	-8.018	-2.544	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.577	-6.887	-1.119	1.00	0.00	C
ATOM	414	CE1	PHE A	32149.167	-6.913	-3.373	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.622	-5.779	-1.944	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.419	-5.791	-3.072	1.00	0.00	C
ATOM	417	H	PHE A	32146.535	-9.391	-2.517	1.00	0.00	H

ATOM	418	HA	PHE A	32147.015	-10.887	-0.041	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.511	-8.896	0.491	1.00	0.00	H
ATOM	420	2HB	PHE A	32149.024	-9.919	-0.846	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.704	-8.894	-2.780	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.954	-6.875	-0.236	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.792	-6.925	-4.254	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.036	-4.903	-1.705	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.456	-4.928	-3.718	1.00	0.00	H
ATOM	426	N	TYR A	33146.171	-8.970	1.606	1.00	0.00	N
ATOM	427	CA	TYR A	33145.294	-8.209	2.489	1.00	0.00	C
ATOM	428	C	TYR A	33146.106	-7.332	3.438	1.00	0.00	C
ATOM	429	O	TYR A	33146.957	-7.824	4.180	1.00	0.00	O
ATOM	430	CB	TYR A	33144.398	-9.154	3.291	1.00	0.00	C
ATOM	431	CG	TYR A	33143.192	-9.643	2.522	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.956	-11.002	2.350	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.287	-8.745	1.967	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.854	-11.451	1.648	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.183	-9.188	1.264	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.971	-10.541	1.107	1.00	0.00	C
ATOM	437	OH	TYR A	33139.873	-10.985	0.407	1.00	0.00	O
ATOM	438	H	TYR A	33146.969	-9.398	1.978	1.00	0.00	H
ATOM	439	HA	TYR A	33144.674	-7.574	1.875	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.973	-10.019	3.588	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.046	-8.642	4.174	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.649	-11.712	2.776	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.457	-7.686	2.092	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.688	-12.511	1.526	1.00	0.00	H

ATOM	445	HE2	TYR A	33140.492	-8.474	0.840	1.00	0.00	H
ATOM	446	HH	TYR A	33139.113	-11.017	0.991	1.00	0.00	H
ATOM	447	N	GLY A	34145.837	-6.031	3.408	1.00	0.00	N
ATOM	448	CA	GLY A	34146.550	-5.107	4.269	1.00	0.00	C
ATOM	449	C	GLY A	34145.676	-3.963	4.743	1.00	0.00	C
ATOM	450	O	GLY A	34144.452	-4.089	4.797	1.00	0.00	O
ATOM	451	H	GLY A	34145.148	-5.696	2.796	1.00	0.00	H
ATOM	452	1HA	GLY A	34146.918	-5.644	5.131	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.390	-4.701	3.726	1.00	0.00	H
ATOM	454	N	VAL A	35146.303	-2.843	5.086	1.00	0.00	N
ATOM	455	CA	VAL A	35145.574	-1.672	5.558	1.00	0.00	C
ATOM	456	C	VAL A	35146.235	-0.383	5.078	1.00	0.00	C
ATOM	457	O	VAL A	35147.452	-0.326	4.904	1.00	0.00	O
ATOM	458	CB	VAL A	35145.480	-1.651	7.096	1.00	0.00	C
ATOM	459	CG1	VAL A	35146.865	-1.581	7.720	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.617	-0.488	7.565	1.00	0.00	C
ATOM	461	H	VAL A	35147.280	-2.802	5.021	1.00	0.00	H
ATOM	462	HA	VAL A	35144.572	-1.721	5.158	1.00	0.00	H
ATOM	463	HB	VAL A	35145.012	-2.570	7.420	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.133	-0.548	7.891	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.585	-2.032	7.051	1.00	0.00	H
ATOM	466	3HG1	VAL A	35146.866	-2.114	8.660	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.012	0.436	7.169	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.623	-0.448	8.645	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.605	-0.627	7.216	1.00	0.00	H
ATOM	470	N	ILE A	36145.424	0.648	4.865	1.00	0.00	N
ATOM	471	CA	ILE A	36145.931	1.935	4.406	1.00	0.00	C

ATOM	472	C	ILE A	36146.835	2.573	5.456	1.00	0.00	C
ATOM	473	O	ILE A	36146.530	2.553	6.647	1.00	0.00	O
ATOM	474	CB	ILE A	36144.781	2.907	4.074	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.779	2.243	3.126	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.328	4.187	3.460	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.620	3.139	2.746	1.00	0.00	C
ATOM	478	H	ILE A	36144.463	0.540	5.022	1.00	0.00	H
ATOM	479	HA	ILE A	36146.503	1.767	3.506	1.00	0.00	H
ATOM	480	HB	ILE A	36144.279	3.165	4.994	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.288	1.957	2.217	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.376	1.360	3.600	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.563	4.949	3.473	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.630	3.999	2.440	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.181	4.525	4.031	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.885	4.169	2.932	1.00	0.00	H
ATOM	487	2HD1	ILE A	36141.755	2.878	3.339	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.392	3.008	1.699	1.00	0.00	H
ATOM	489	N	ARG A	37147.950	3.137	5.004	1.00	0.00	N
ATOM	490	CA	ARG A	37148.901	3.779	5.905	1.00	0.00	C
ATOM	491	C	ARG A	37149.107	5.243	5.529	1.00	0.00	C
ATOM	492	O	ARG A	37148.852	6.142	6.331	1.00	0.00	O
ATOM	493	CB	ARG A	37150.240	3.041	5.877	1.00	0.00	C
ATOM	494	CG	ARG A	37150.108	1.536	6.049	1.00	0.00	C
ATOM	495	CD	ARG A	37149.381	1.183	7.336	1.00	0.00	C
ATOM	496	NE	ARG A	37150.219	1.390	8.514	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.776	1.294	9.766	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.506	0.996	10.006	1.00	0.00	N

ATOM	499	NH2	ARG A	37150.606	1.498	10.780	1.00	0.00	N
ATOM	500	H	ARG A	37148.140	3.120	4.043	1.00	0.00	H
ATOM	501	HA	ARG A	37148.495	3.731	6.904	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.725	3.232	4.932	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.863	3.418	6.675	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.555	1.135	5.213	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.096	1.098	6.072	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.501	1.804	7.419	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.084	0.145	7.294	1.00	0.00	H
ATOM	508	HE	ARG A	37151.162	1.612	8.365	1.00	0.00	H
ATOM	509	1HH1	ARG A	37147.875	0.841	9.245	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.179	0.925	10.949	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.565	1.723	10.604	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.274	1.426	11.720	1.00	0.00	H
ATOM	513	N	TRP A	38149.570	5.476	4.305	1.00	0.00	N
ATOM	514	CA	TRP A	38149.811	6.832	3.825	1.00	0.00	C
ATOM	515	C	TRP A	38149.117	7.071	2.486	1.00	0.00	C
ATOM	516	O	TRP A	38149.194	6.244	1.578	1.00	0.00	O
ATOM	517	CB	TRP A	38151.316	7.090	3.690	1.00	0.00	C
ATOM	518	CG	TRP A	38151.645	8.370	2.979	1.00	0.00	C
ATOM	519	CD1	TRP A	38151.811	9.602	3.542	1.00	0.00	C
ATOM	520	CD2	TRP A	38151.843	8.541	1.571	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.101	10.529	2.569	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.125	9.902	1.351	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.808	7.676	0.474	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.372	10.415	0.080	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.054	8.185	-0.786	1.00	0.00	C

ATOM	526	CH2	TRP A	38152.333	9.544	-0.975	1.00	0.00	C
ATOM	527	H	TRP A	38149.755	4.719	3.711	1.00	0.00	H
ATOM	528	HA	TRP A	38149.403	7.517	4.553	1.00	0.00	H
ATOM	529	1HB	TRP A	38151.755	7.134	4.675	1.00	0.00	H
ATOM	530	2HB	TRP A	38151.764	6.276	3.138	1.00	0.00	H
ATOM	531	HD1	TRP A	38151.725	9.805	4.599	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.263	11.484	2.724	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.595	6.625	0.599	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.586	11.461	-0.083	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.031	7.530	-1.645	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.518	9.899	-1.979	1.00	0.00	H
ATOM	537	N	ILE A	39148.450	8.214	2.372	1.00	0.00	N
ATOM	538	CA	ILE A	39147.751	8.576	1.147	1.00	0.00	C
ATOM	539	C	ILE A	39148.211	9.942	0.653	1.00	0.00	C
ATOM	540	O	ILE A	39147.859	10.971	1.229	1.00	0.00	O
ATOM	541	CB	ILE A	39146.222	8.603	1.353	1.00	0.00	C
ATOM	542	CG1	ILE A	39145.750	7.301	2.003	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.511	8.827	0.028	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.484	7.455	2.817	1.00	0.00	C
ATOM	545	H	ILE A	39148.433	8.833	3.131	1.00	0.00	H
ATOM	546	HA	ILE A	39147.981	7.834	0.396	1.00	0.00	H
ATOM	547	HB	ILE A	39145.985	9.429	2.006	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.560	6.569	1.232	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.525	6.931	2.660	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.606	9.864	-0.260	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.466	8.577	0.133	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.957	8.202	-0.731	1.00	0.00	H

ATOM	553	1HD1	ILE A	39144.106	8.462	2.706	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.699	7.265	3.858	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.742	6.752	2.468	1.00	0.00	H
ATOM	556	N	GLY A	40149.008	9.947	-0.411	1.00	0.00	N
ATOM	557	CA	GLY A	40149.508	11.196	-0.952	1.00	0.00	C
ATOM	558	C	GLY A	40150.119	11.035	-2.329	1.00	0.00	C
ATOM	559	O	GLY A	40149.963	9.996	-2.970	1.00	0.00	O
ATOM	560	H	GLY A	40149.261	9.097	-0.828	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.694	11.901	-1.013	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.257	11.588	-0.282	1.00	0.00	H
ATOM	563	N	GLN A	41150.815	12.071	-2.785	1.00	0.00	N
ATOM	564	CA	GLN A	41151.452	12.052	-4.094	1.00	0.00	C
ATOM	565	C	GLN A	41152.919	12.468	-3.988	1.00	0.00	C
ATOM	566	O	GLN A	41153.223	13.605	-3.629	1.00	0.00	O
ATOM	567	CB	GLN A	41150.710	12.989	-5.046	1.00	0.00	C
ATOM	568	CG	GLN A	41149.202	12.798	-5.033	1.00	0.00	C
ATOM	569	CD	GLN A	41148.450	14.112	-5.103	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.391	14.860	-4.127	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.871	14.397	-6.261	1.00	0.00	N
ATOM	572	H	GLN A	41150.900	12.871	-2.227	1.00	0.00	H
ATOM	573	HA	GLN A	41151.396	11.045	-4.478	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.923	14.009	-4.767	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.065	12.818	-6.049	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.920	12.194	-5.882	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.924	12.288	-4.122	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.960	13.751	-6.992	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.378	15.240	-6.338	1.00	0.00	H

ATOM	580	N	PRO A	42153.854	11.549	-4.297	1.00	0.00	N
ATOM	581	CA	PRO A	42155.292	11.834	-4.231	1.00	0.00	C
ATOM	582	C	PRO A	42155.691	13.017	-5.108	1.00	0.00	C
ATOM	583	O	PRO A	42154.968	13.383	-6.036	1.00	0.00	O
ATOM	584	CB	PRO A	42155.942	10.545	-4.744	1.00	0.00	C
ATOM	585	CG	PRO A	42154.913	9.489	-4.534	1.00	0.00	C
ATOM	586	CD	PRO A	42153.589	10.167	-4.733	1.00	0.00	C
ATOM	587	HA	PRO A	42155.610	12.021	-3.215	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.187	10.656	-5.791	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.839	10.341	-4.178	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.044	8.698	-5.257	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.987	9.099	-3.530	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.303	10.138	-5.775	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.831	9.706	-4.117	1.00	0.00	H
ATOM	594	N	PRO A	43156.851	13.631	-4.826	1.00	0.00	N
ATOM	595	CA	PRO A	43157.345	14.777	-5.595	1.00	0.00	C
ATOM	596	C	PRO A	43157.832	14.376	-6.981	1.00	0.00	C
ATOM	597	O	PRO A	43159.014	14.095	-7.178	1.00	0.00	O
ATOM	598	CB	PRO A	43158.510	15.294	-4.751	1.00	0.00	C
ATOM	599	CG	PRO A	43158.989	14.102	-3.998	1.00	0.00	C
ATOM	600	CD	PRO A	43157.772	13.257	-3.736	1.00	0.00	C
ATOM	601	HA	PRO A	43156.592	15.546	-5.686	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.278	15.687	-5.401	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.161	16.068	-4.084	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.704	13.554	-4.595	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.438	14.412	-3.066	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.024	12.208	-3.788	1.00	0.00	H

ATOM	607	2HD	PRO A	43157.347	13.497	-2.773	1.00	0.00	H
ATOM	608	N	GLY A	44156.914	14.350	-7.941	1.00	0.00	N
ATOM	609	CA	GLY A	44157.273	13.982	-9.297	1.00	0.00	C
ATOM	610	C	GLY A	44156.084	13.491	-10.098	1.00	0.00	C
ATOM	611	O	GLY A	44155.844	13.957	-11.212	1.00	0.00	O
ATOM	612	H	GLY A	44155.987	14.583	-7.727	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.695	14.843	-9.792	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.016	13.199	-9.262	1.00	0.00	H
ATOM	615	N	LEU A	45155.339	12.549	-9.532	1.00	0.00	N
ATOM	616	CA	LEU A	45154.169	11.997	-10.204	1.00	0.00	C
ATOM	617	C	LEU A	45152.914	12.208	-9.366	1.00	0.00	C
ATOM	618	O	LEU A	45152.764	11.612	-8.299	1.00	0.00	O
ATOM	619	CB	LEU A	45154.369	10.506	-10.478	1.00	0.00	C
ATOM	620	CG	LEU A	45154.847	9.684	-9.278	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.479	8.217	-9.453	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.350	9.845	-9.088	1.00	0.00	C
ATOM	623	H	LEU A	45155.580	12.218	-8.639	1.00	0.00	H
ATOM	624	HA	LEU A	45154.051	12.515	-11.144	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.430	10.094	-10.818	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.096	10.401	-11.270	1.00	0.00	H
ATOM	627	HG	LEU A	45154.357	10.046	-8.387	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.735	7.943	-8.719	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.359	7.605	-9.316	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.083	8.059	-10.445	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.708	10.657	-9.704	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.849	8.930	-9.373	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.560	10.060	-8.051	1.00	0.00	H

ATOM	634	N	ASN A	46152.013	13.054	-9.852	1.00	0.00	N
ATOM	635	CA	ASN A	46150.774	13.330	-9.134	1.00	0.00	C
ATOM	636	C	ASN A	46149.823	12.143	-9.238	1.00	0.00	C
ATOM	637	O	ASN A	46149.247	11.884	-10.295	1.00	0.00	O
ATOM	638	CB	ASN A	46150.109	14.588	-9.696	1.00	0.00	C
ATOM	639	CG	ASN A	46148.854	14.969	-8.936	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.885	14.212	-8.894	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.867	16.151	-8.329	1.00	0.00	N
ATOM	642	H	ASN A	46152.183	13.500	-10.707	1.00	0.00	H
ATOM	643	HA	ASN A	46151.019	13.493	-8.096	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.804	15.411	-9.641	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.843	14.415	-10.730	1.00	0.00	H
ATOM	646	1HD2	ASN A	46149.674	16.702	-8.407	1.00	0.00	H
ATOM	647	2HD2	ASN A	46148.069	16.424	-7.831	1.00	0.00	H
ATOM	648	N	GLU A	47149.664	11.426	-8.131	1.00	0.00	N
ATOM	649	CA	GLU A	47148.783	10.265	-8.089	1.00	0.00	C
ATOM	650	C	GLU A	47148.535	9.827	-6.650	1.00	0.00	C
ATOM	651	O	GLU A	47149.473	9.496	-5.924	1.00	0.00	O
ATOM	652	CB	GLU A	47149.384	9.107	-8.891	1.00	0.00	C
ATOM	653	CG	GLU A	47150.894	8.984	-8.752	1.00	0.00	C
ATOM	654	CD	GLU A	47151.508	8.112	-9.829	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.735	8.621	-10.948	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.761	6.920	-9.557	1.00	0.00	O
ATOM	657	H	GLU A	47150.151	11.684	-7.323	1.00	0.00	H
ATOM	658	HA	GLU A	47147.841	10.548	-8.533	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.938	8.183	-8.556	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.152	9.251	-9.936	1.00	0.00	H

ATOM	661	1HG	GLU A	47151.331	9.968	-8.815	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.122	8.552	-7.788	1.00	0.00	H
ATOM	663	N	VAL A	48147.271	9.818	-6.242	1.00	0.00	N
ATOM	664	CA	VAL A	48146.916	9.408	-4.890	1.00	0.00	C
ATOM	665	C	VAL A	48147.256	7.940	-4.667	1.00	0.00	C
ATOM	666	O	VAL A	48146.521	7.050	-5.094	1.00	0.00	O
ATOM	667	CB	VAL A	48145.417	9.627	-4.610	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.108	9.388	-3.139	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.992	11.025	-5.031	1.00	0.00	C
ATOM	670	H	VAL A	48146.563	10.087	-6.865	1.00	0.00	H
ATOM	671	HA	VAL A	48147.485	10.010	-4.197	1.00	0.00	H
ATOM	672	HB	VAL A	48144.854	8.911	-5.192	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.930	9.745	-2.536	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.967	8.332	-2.967	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.208	9.921	-2.869	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.845	11.687	-4.994	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.227	11.387	-4.361	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.604	10.994	-6.038	1.00	0.00	H
ATOM	679	N	LEU A	49148.379	7.692	-4.002	1.00	0.00	N
ATOM	680	CA	LEU A	49148.821	6.331	-3.729	1.00	0.00	C
ATOM	681	C	LEU A	49148.666	5.997	-2.251	1.00	0.00	C
ATOM	682	O	LEU A	49149.298	6.615	-1.394	1.00	0.00	O
ATOM	683	CB	LEU A	49150.279	6.151	-4.154	1.00	0.00	C
ATOM	684	CG	LEU A	49150.574	6.496	-5.614	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.003	6.995	-5.767	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.333	5.286	-6.505	1.00	0.00	C
ATOM	687	H	LEU A	49148.926	8.443	-3.689	1.00	0.00	H

ATOM	688	HA	LEU A	49148.202	5.660	-4.304	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.895	6.778	-3.526	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.556	5.121	-3.988	1.00	0.00	H
ATOM	691	HG	LEU A	49149.909	7.285	-5.934	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.628	6.533	-5.017	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.024	8.068	-5.641	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.370	6.741	-6.749	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.956	5.614	-7.463	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.610	4.634	-6.038	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.261	4.752	-6.648	1.00	0.00	H
ATOM	698	N	ALA A	50147.820	5.017	-1.958	1.00	0.00	N
ATOM	699	CA	ALA A	50147.584	4.604	-0.582	1.00	0.00	C
ATOM	700	C	ALA A	50148.522	3.470	-0.181	1.00	0.00	C
ATOM	701	O	ALA A	50148.448	2.368	-0.726	1.00	0.00	O
ATOM	702	CB	ALA A	50146.134	4.182	-0.398	1.00	0.00	C
ATOM	703	H	ALA A	50147.344	4.561	-2.683	1.00	0.00	H
ATOM	704	HA	ALA A	50147.771	5.456	0.055	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.082	3.370	0.313	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.730	3.857	-1.345	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.559	5.019	-0.030	1.00	0.00	H
ATOM	708	N	GLY A	51149.405	3.747	0.773	1.00	0.00	N
ATOM	709	CA	GLY A	51150.345	2.741	1.230	1.00	0.00	C
ATOM	710	C	GLY A	51149.671	1.632	2.013	1.00	0.00	C
ATOM	711	O	GLY A	51149.179	1.854	3.120	1.00	0.00	O
ATOM	712	H	GLY A	51149.417	4.643	1.171	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.839	2.311	0.372	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.084	3.214	1.860	1.00	0.00	H

ATOM	715	N	LEU A	52149.648	0.434	1.439	1.00	0.00	N
ATOM	716	CA	LEU A	52149.030	-0.714	2.091	1.00	0.00	C
ATOM	717	C	LEU A	52150.084	-1.612	2.730	1.00	0.00	C
ATOM	718	O	LEU A	52151.068	-1.983	2.091	1.00	0.00	O
ATOM	719	CB	LEU A	52148.203	-1.516	1.084	1.00	0.00	C
ATOM	720	CG	LEU A	52146.961	-0.800	0.552	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.446	-1.487	-0.703	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.877	-0.751	1.619	1.00	0.00	C
ATOM	723	H	LEU A	52150.057	0.319	0.556	1.00	0.00	H
ATOM	724	HA	LEU A	52148.375	-0.342	2.865	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.838	-1.763	0.245	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.888	-2.433	1.558	1.00	0.00	H
ATOM	727	HG	LEU A	52147.221	0.216	0.293	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.683	-0.874	-1.162	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.027	-2.448	-0.441	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.261	-1.627	-1.397	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.189	0.050	1.397	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.330	-0.582	2.584	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.343	-1.691	1.633	1.00	0.00	H
ATOM	734	N	GLU A	53149.872	-1.957	3.997	1.00	0.00	N
ATOM	735	CA	GLU A	53150.804	-2.811	4.723	1.00	0.00	C
ATOM	736	C	GLU A	53150.332	-4.261	4.715	1.00	0.00	C
ATOM	737	O	GLU A	53149.326	-4.600	5.337	1.00	0.00	O
ATOM	738	CB	GLU A	53150.960	-2.320	6.164	1.00	0.00	C
ATOM	739	CG	GLU A	53151.942	-3.142	6.984	1.00	0.00	C
ATOM	740	CD	GLU A	53151.412	-3.483	8.361	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.983	-2.556	9.079	1.00	0.00	O

ATOM	742	OE2	GLU A	53151.424	-4.679	8.723	1.00	0.00	O
ATOM	743	H	GLU A	53149.068	-1.629	4.453	1.00	0.00	H
ATOM	744	HA	GLU A	53151.761	-2.754	4.228	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.304	-1.297	6.149	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.996	-2.360	6.652	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.150	-4.062	6.456	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.857	-2.578	7.095	1.00	0.00	H
ATOM	749	N	LEU A	54151.066	-5.113	4.006	1.00	0.00	N
ATOM	750	CA	LEU A	54150.722	-6.527	3.917	1.00	0.00	C
ATOM	751	C	LEU A	54151.001	-7.240	5.237	1.00	0.00	C
ATOM	752	O	LEU A	54152.072	-7.083	5.824	1.00	0.00	O
ATOM	753	CB	LEU A	54151.510	-7.195	2.788	1.00	0.00	C
ATOM	754	CG	LEU A	54151.446	-6.474	1.440	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.653	-6.828	0.587	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.156	-6.822	0.713	1.00	0.00	C
ATOM	757	H	LEU A	54151.857	-4.782	3.532	1.00	0.00	H
ATOM	758	HA	LEU A	54149.668	-6.598	3.699	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.546	-7.258	3.089	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.129	-8.195	2.654	1.00	0.00	H
ATOM	761	HG	LEU A	54151.458	-5.407	1.609	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.792	-7.899	0.586	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.533	-6.352	0.993	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.493	-6.485	-0.425	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.838	-5.977	0.118	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.389	-7.064	1.434	1.00	0.00	H
ATOM	767	3HD2	LEU A	54150.324	-7.672	0.068	1.00	0.00	H
ATOM	768	N	GLU A	55150.030	-8.020	5.699	1.00	0.00	N

ATOM	769	CA	GLU A	55150.170	-8.755	6.951	1.00	0.00	C
ATOM	770	C	GLU A	55151.279	-9.798	6.849	1.00	0.00	C
ATOM	771	O	GLU A	55151.960	-10.092	7.832	1.00	0.00	O
ATOM	772	CB	GLU A	55148.849	-9.435	7.317	1.00	0.00	C
ATOM	773	CG	GLU A	55147.932	-8.564	8.162	1.00	0.00	C
ATOM	774	CD	GLU A	55147.895	-8.998	9.615	1.00	0.00	C
ATOM	775	OE1	GLU A	55147.569	-10.174	9.877	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.192	-8.159	10.492	1.00	0.00	O
ATOM	777	H	GLU A	55149.199	-8.103	5.186	1.00	0.00	H
ATOM	778	HA	GLU A	55150.427	-8.047	7.724	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.326	-9.692	6.408	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.062	-10.337	7.868	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.282	-7.544	8.117	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.932	-8.620	7.759	1.00	0.00	H
ATOM	783	N	ASP A	56151.454	-10.353	5.655	1.00	0.00	N
ATOM	784	CA	ASP A	56152.481	-11.364	5.426	1.00	0.00	C
ATOM	785	C	ASP A	56153.824	-10.713	5.113	1.00	0.00	C
ATOM	786	O	ASP A	56153.897	-9.750	4.351	1.00	0.00	O
ATOM	787	CB	ASP A	56152.070	-12.287	4.279	1.00	0.00	C
ATOM	788	CG	ASP A	56150.961	-13.243	4.674	1.00	0.00	C
ATOM	789	OD1	ASP A	56150.877	-13.592	5.871	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.177	-13.642	3.787	1.00	0.00	O
ATOM	791	H	ASP A	56150.880	-10.078	4.910	1.00	0.00	H
ATOM	792	HA	ASP A	56152.578	-11.948	6.329	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.724	-11.689	3.448	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.927	-12.867	3.966	1.00	0.00	H
ATOM	795	N	GLU A	57154.887	-11.245	5.710	1.00	0.00	N

ATOM	796	CA	GLU A	57156.229 -10.716	5.495	1.00	0.00	C
ATOM	797	C	GLU A	57156.867 -11.340	4.258	1.00	0.00	C
ATOM	798	O	GLU A	57157.811 -12.126	4.362	1.00	0.00	O
ATOM	799	CB	GLU A	57157.103 -10.974	6.724	1.00	0.00	C
ATOM	800	CG	GLU A	57157.075 -9.844	7.739	1.00	0.00	C
ATOM	801	CD	GLU A	57158.336 -9.784	8.580	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.432 -9.656	7.997	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.225 -9.864	9.822	1.00	0.00	O
ATOM	804	H	GLU A	57154.765 -12.012	6.309	1.00	0.00	H
ATOM	805	HA	GLU A	57156.143 -9.650	5.343	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.762 -11.876	7.212	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.124 -11.114	6.402	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.967 -8.907	7.214	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.229 -9.987	8.395	1.00	0.00	H
ATOM	810	N	CYS A	58156.349 -10.983	3.088	1.00	0.00	N
ATOM	811	CA	CYS A	58156.869 -11.508	1.830	1.00	0.00	C
ATOM	812	C	CYS A	58158.107 -10.734	1.389	1.00	0.00	C
ATOM	813	O	CYS A	58158.053 -9.521	1.183	1.00	0.00	O
ATOM	814	CB	CYS A	58155.795 -11.438	0.743	1.00	0.00	C
ATOM	815	SG	CYS A	58155.816 -12.835	-0.405	1.00	0.00	S
ATOM	816	H	CYS A	58155.599 -10.353	3.069	1.00	0.00	H
ATOM	817	HA	CYS A	58157.141 -12.540	1.989	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.822 -11.412	1.209	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.937 -10.536	0.165	1.00	0.00	H
ATOM	820	HG	CYS A	58156.542 -13.413	-0.156	1.00	0.00	H
ATOM	821	N	ALAA	59159.222 -11.443	1.246	1.00	0.00	N
ATOM	822	CA	ALAA	59160.474 -10.823	0.830	1.00	0.00	C

ATOM	823	C	ALA A	59160.347	-10.208	-0.559	1.00	0.00	C
ATOM	824	O	ALA A	59160.243	-10.921	-1.558	1.00	0.00	O
ATOM	825	CB	ALA A	59161.602	-11.842	0.857	1.00	0.00	C
ATOM	826	H	ALA A	59159.202	-12.406	1.425	1.00	0.00	H
ATOM	827	HA	ALA A	59160.710	-10.041	1.538	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.800	-12.134	1.878	1.00	0.00	H
ATOM	829	2HB	ALA A	59162.492	-11.406	0.428	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.315	-12.712	0.284	1.00	0.00	H
ATOM	831	N	GLY A	60160.353	-8.880	-0.616	1.00	0.00	N
ATOM	832	CA	GLY A	60160.238	-8.192	-1.888	1.00	0.00	C
ATOM	833	C	GLY A	60159.723	-6.774	-1.737	1.00	0.00	C
ATOM	834	O	GLY A	60160.028	-5.905	-2.553	1.00	0.00	O
ATOM	835	H	GLY A	60160.438	-8.363	0.212	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.210	-8.161	-2.359	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.560	-8.743	-2.523	1.00	0.00	H
ATOM	838	N	CYS A	61158.940	-6.540	-0.689	1.00	0.00	N
ATOM	839	CA	CYS A	61158.382	-5.218	-0.432	1.00	0.00	C
ATOM	840	C	CYS A	61159.349	-4.367	0.384	1.00	0.00	C
ATOM	841	O	CYS A	61160.444	-4.813	0.728	1.00	0.00	O
ATOM	842	CB	CYS A	61157.046	-5.340	0.305	1.00	0.00	C
ATOM	843	SG	CYS A	61155.819	-6.353	-0.555	1.00	0.00	S
ATOM	844	H	CYS A	61158.733	-7.274	-0.073	1.00	0.00	H
ATOM	845	HA	CYS A	61158.214	-4.739	-1.384	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.217	-5.785	1.273	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.625	-4.354	0.436	1.00	0.00	H
ATOM	848	HG	CYS A	61154.998	-5.857	-0.590	1.00	0.00	H
ATOM	849	N	THR A	62158.939	-3.141	0.690	1.00	0.00	N

ATOM	850	CA	THR A	62159.769	-2.228	1.465	1.00	0.00	C
ATOM	851	C	THR A	62159.315	-2.182	2.920	1.00	0.00	C
ATOM	852	O	THR A	62158.402	-2.904	3.318	1.00	0.00	O
ATOM	853	CB	THR A	62159.722	-0.823	0.860	1.00	0.00	C
ATOM	854	OG1	THR A	62158.393	-0.336	0.828	1.00	0.00	O
ATOM	855	CG2	THR A	62160.268	-0.762	-0.551	1.00	0.00	C
ATOM	856	H	THR A	62158.055	-2.844	0.386	1.00	0.00	H
ATOM	857	HA	THR A	62160.785	-2.592	1.429	1.00	0.00	H
ATOM	858	HB	THR A	62160.313	-0.159	1.472	1.00	0.00	H
ATOM	859	HG1	THR A	62157.985	-0.460	1.688	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.024	-1.522	-0.678	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.702	0.210	-0.727	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.466	-0.930	-1.254	1.00	0.00	H
ATOM	863	N	ASP A	63159.959	-1.327	3.709	1.00	0.00	N
ATOM	864	CA	ASP A	63159.621	-1.186	5.121	1.00	0.00	C
ATOM	865	C	ASP A	63158.989	0.174	5.394	1.00	0.00	C
ATOM	866	O	ASP A	63159.144	0.735	6.479	1.00	0.00	O
ATOM	867	CB	ASP A	63160.870	-1.365	5.985	1.00	0.00	C
ATOM	868	CG	ASP A	63161.964	-0.376	5.632	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.797	0.826	5.928	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.989	-0.804	5.059	1.00	0.00	O
ATOM	871	H	ASP A	63160.679	-0.778	3.333	1.00	0.00	H
ATOM	872	HA	ASP A	63158.908	-1.958	5.370	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.605	-1.223	7.023	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.255	-2.364	5.849	1.00	0.00	H
ATOM	875	N	GLY A	64158.275	0.699	4.404	1.00	0.00	N
ATOM	876	CA	GLY A	64157.630	1.990	4.558	1.00	0.00	C

ATOM	877	C	GLY A	64158.349	3.092	3.805	1.00	0.00	C
ATOM	878	O	GLY A	64158.370	4.242	4.245	1.00	0.00	O
ATOM	879	H	GLY A	64158.187	0.207	3.561	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.617	1.919	4.190	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.603	2.243	5.607	1.00	0.00	H
ATOM	882	N	THR A	65158.940	2.740	2.668	1.00	0.00	N
ATOM	883	CA	THR A	65159.664	3.708	1.852	1.00	0.00	C
ATOM	884	C	THR A	65159.260	3.594	0.385	1.00	0.00	C
ATOM	885	O	THR A	65159.441	2.549	-0.239	1.00	0.00	O
ATOM	886	CB	THR A	65161.172	3.502	1.996	1.00	0.00	C
ATOM	887	OG1	THR A	65161.477	2.126	2.147	1.00	0.00	O
ATOM	888	CG2	THR A	65161.767	4.236	3.177	1.00	0.00	C
ATOM	889	H	THR A	65158.888	1.808	2.369	1.00	0.00	H
ATOM	890	HA	THR A	65159.410	4.696	2.207	1.00	0.00	H
ATOM	891	HB	THR A	65161.661	3.861	1.101	1.00	0.00	H
ATOM	892	HG1	THR A	65161.207	1.650	1.359	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.809	4.447	2.982	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.683	3.623	4.062	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.234	5.163	3.329	1.00	0.00	H
ATOM	896	N	PHE A	66158.714	4.677	-0.159	1.00	0.00	N
ATOM	897	CA	PHE A	66158.287	4.699	-1.553	1.00	0.00	C
ATOM	898	C	PHE A	66159.157	5.645	-2.375	1.00	0.00	C
ATOM	899	O	PHE A	66159.050	6.865	-2.253	1.00	0.00	O
ATOM	900	CB	PHE A	66156.820	5.122	-1.652	1.00	0.00	C
ATOM	901	CG	PHE A	66156.213	4.872	-3.003	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.173	3.592	-3.534	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.682	5.917	-3.743	1.00	0.00	C

ATOM	904	CE1 PHE A	66155.615	3.359	-4.776	1.00	0.00 C
ATOM	905	CE2 PHE A	66155.123	5.690	-4.987	1.00	0.00 C
ATOM	906	CZ PHE A	66155.089	4.409	-5.503	1.00	0.00 C
ATOM	907	H PHE A	66158.597	5.480	0.389	1.00	0.00 H
ATOM	908	HA PHE A	66158.391	3.699	-1.948	1.00	0.00 H
ATOM	909	1HB PHE A	66156.244	4.573	-0.923	1.00	0.00 H
ATOM	910	2HB PHE A	66156.743	6.179	-1.443	1.00	0.00 H
ATOM	911	HD1 PHE A	66156.583	2.770	-2.965	1.00	0.00 H
ATOM	912	HD2 PHE A	66155.708	6.918	-3.340	1.00	0.00 H
ATOM	913	HE1 PHE A	66155.589	2.357	-5.178	1.00	0.00 H
ATOM	914	HE2 PHE A	66154.712	6.513	-5.553	1.00	0.00 H
ATOM	915	HZ PHE A	66154.652	4.230	-6.475	1.00	0.00 H
ATOM	916	N ARG A	67160.018	5.073	-3.210	1.00	0.00 N
ATOM	917	CA ARG A	67160.908	5.866	-4.052	1.00	0.00 C
ATOM	918	C ARG A	67161.832	6.733	-3.202	1.00	0.00 C
ATOM	919	O ARG A	67162.115	7.879	-3.548	1.00	0.00 O
ATOM	920	CB ARG A	67160.094	6.745	-5.003	1.00	0.00 C
ATOM	921	CG ARG A	67158.971	6.002	-5.708	1.00	0.00 C
ATOM	922	CD ARG A	67158.778	6.502	-7.131	1.00	0.00 C
ATOM	923	NE ARG A	67158.252	5.461	-8.011	1.00	0.00 N
ATOM	924	CZ ARG A	67158.319	5.509	-9.339	1.00	0.00 C
ATOM	925	NH1 ARG A	67158.886	6.546	-9.944	1.00	0.00 N
ATOM	926	NH2 ARG A	67157.815	4.520	-10.064	1.00	0.00 N
ATOM	927	H ARG A	67160.057	4.095	-3.262	1.00	0.00 H
ATOM	928	HA ARG A	67161.509	5.182	-4.633	1.00	0.00 H
ATOM	929	1HB ARG A	67159.660	7.558	-4.440	1.00	0.00 H
ATOM	930	2HB ARG A	67160.756	7.151	-5.754	1.00	0.00 H

ATOM	931	1HG	ARG A	67159.210	4.950	-5.737	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.053	6.149	-5.157	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.087	7.331	-7.117	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.732	6.836	-7.513	1.00	0.00	H
ATOM	935	HE	ARG A	67157.828	4.684	-7.590	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.267	7.295	-9.404	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.933	6.577	-10.943	1.00	0.00	H
ATOM	938	1HH2	ARG A	67157.388	3.737	-9.614	1.00	0.00	H
ATOM	939	2HH2	ARG A	67157.865	4.557	-11.063	1.00	0.00	H
ATOM	940	N	GLY A	68162.297	6.177	-2.088	1.00	0.00	N
ATOM	941	CA	GLY A	68163.183	6.913	-1.207	1.00	0.00	C
ATOM	942	C	GLY A	68162.472	8.035	-0.476	1.00	0.00	C
ATOM	943	O	GLY A	68163.086	9.043	-0.124	1.00	0.00	O
ATOM	944	H	GLY A	68162.037	5.259	-1.863	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.599	6.231	-0.480	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.988	7.333	-1.792	1.00	0.00	H
ATOM	947	N	THR A	69161.174	7.861	-0.247	1.00	0.00	N
ATOM	948	CA	THR A	69160.378	8.867	0.445	1.00	0.00	C
ATOM	949	C	THR A	69159.605	8.245	1.604	1.00	0.00	C
ATOM	950	O	THR A	69158.505	7.724	1.420	1.00	0.00	O
ATOM	951	CB	THR A	69159.408	9.539	-0.528	1.00	0.00	C
ATOM	952	OG1	THR A	69160.027	9.757	-1.782	1.00	0.00	O
ATOM	953	CG2	THR A	69158.891	10.872	-0.032	1.00	0.00	C
ATOM	954	H	THR A	69160.742	7.036	-0.553	1.00	0.00	H
ATOM	955	HA	THR A	69161.054	9.612	0.838	1.00	0.00	H
ATOM	956	HB	THR A	69158.557	8.890	-0.677	1.00	0.00	H
ATOM	957	HG1	THR A	69159.364	10.012	-2.427	1.00	0.00	H

ATOM	958	1HG2 THR A	69158.356	11.368	-0.828	1.00	0.00	H
ATOM	959	2HG2 THR A	69159.722	11.486	0.281	1.00	0.00	H
ATOM	960	3HG2 THR A	69158.227	10.712	0.804	1.00	0.00	H
ATOM	961	N ARG A	70160.189	8.301	2.796	1.00	0.00	N
ATOM	962	CA ARG A	70159.554	7.743	3.985	1.00	0.00	C
ATOM	963	C ARG A	70158.220	8.426	4.262	1.00	0.00	C
ATOM	964	O ARG A	70158.126	9.654	4.255	1.00	0.00	O
ATOM	965	CB ARG A	70160.476	7.888	5.198	1.00	0.00	C
ATOM	966	CG ARG A	70159.901	7.294	6.472	1.00	0.00	C
ATOM	967	CD ARG A	70160.291	8.113	7.693	1.00	0.00	C
ATOM	968	NE ARG A	70161.632	7.783	8.169	1.00	0.00	N
ATOM	969	CZ ARG A	70162.308	8.518	9.049	1.00	0.00	C
ATOM	970	NH1 ARG A	70161.773	9.625	9.550	1.00	0.00	N
ATOM	971	NH2 ARG A	70163.523	8.145	9.429	1.00	0.00	N
ATOM	972	H ARG A	70161.067	8.729	2.880	1.00	0.00	H
ATOM	973	HA ARG A	70159.377	6.693	3.803	1.00	0.00	H
ATOM	974	1HB ARG A	70161.412	7.393	4.985	1.00	0.00	H
ATOM	975	2HB ARG A	70160.665	8.938	5.367	1.00	0.00	H
ATOM	976	1HG ARG A	70158.824	7.273	6.395	1.00	0.00	H
ATOM	977	2HG ARG A	70160.276	6.288	6.591	1.00	0.00	H
ATOM	978	1HD ARG A	70160.259	9.161	7.433	1.00	0.00	H
ATOM	979	2HD ARG A	70159.580	7.918	8.483	1.00	0.00	H
ATOM	980	HE ARG A	70162.051	6.971	7.815	1.00	0.00	H
ATOM	981	1HH1 ARG A	70160.858	9.910	9.268	1.00	0.00	H
ATOM	982	2HH1 ARG A	70162.286	10.173	10.210	1.00	0.00	H
ATOM	983	1HH2 ARG A	70163.931	7.313	9.054	1.00	0.00	H
ATOM	984	2HH2 ARG A	70164.031	8.698	10.089	1.00	0.00	H

ATOM	985	N	TYR A	71157.189	7.624	4.505	1.00	0.00	N
ATOM	986	CA	TYR A	71155.858	8.151	4.785	1.00	0.00	C
ATOM	987	C	TYR A	71155.368	7.691	6.154	1.00	0.00	C
ATOM	988	O	TYR A	71154.789	8.471	6.911	1.00	0.00	O
ATOM	989	CB	TYR A	71154.872	7.707	3.703	1.00	0.00	C
ATOM	990	CG	TYR A	71155.088	8.391	2.370	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.239	9.770	2.293	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.141	7.658	1.192	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.435	10.399	1.078	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.337	8.279	-0.026	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.484	9.649	-0.078	1.00	0.00	C
ATOM	996	OH	TYR A	71155.680	10.271	-1.290	1.00	0.00	O
ATOM	997	H	TYR A	71157.326	6.653	4.496	1.00	0.00	H
ATOM	998	HA	TYR A	71155.921	9.229	4.782	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.973	6.643	3.548	1.00	0.00	H
ATOM	1000	2HB	TYR A	71153.867	7.926	4.030	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.200	10.354	3.200	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.024	6.585	1.236	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.551	11.472	1.037	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.375	7.691	-0.932	1.00	0.00	H
ATOM	1005	HH	TYR A	71154.899	10.159	-1.837	1.00	0.00	H
ATOM	1006	N	PHE A	72155.602	6.420	6.465	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.185	5.857	7.743	1.00	0.00	C
ATOM	1008	C	PHE A	72156.131	4.743	8.181	1.00	0.00	C
ATOM	1009	O	PHE A	72156.903	4.218	7.379	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.757	5.319	7.645	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.573	4.298	6.558	1.00	0.00	C

ATOM	1012	CD1 PHE A	72153.332	4.693	5.252	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.642	2.944	6.844	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.162	3.757	4.251	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.474	2.002	5.846	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.234	2.409	4.548	1.00	0.00	C
ATOM	1017	H PHE A	72156.068	5.848	5.820	1.00	0.00	H
ATOM	1018	HA PHE A	72155.213	6.647	8.479	1.00	0.00	H
ATOM	1019	IHB PHE A	72153.488	4.857	8.583	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.083	6.140	7.448	1.00	0.00	H
ATOM	1021	HD1 PHE A	72153.277	5.746	5.019	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.830	2.625	7.858	1.00	0.00	H
ATOM	1023	HE1 PHE A	72152.974	4.076	3.237	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.530	0.949	6.081	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.101	1.675	3.767	1.00	0.00	H
ATOM	1026	N THR A	73156.066	4.389	9.461	1.00	0.00	N
ATOM	1027	CA THR A	73156.917	3.338	10.006	1.00	0.00	C
ATOM	1028	C THR A	73156.150	2.025	10.130	1.00	0.00	C
ATOM	1029	O THR A	73155.140	1.948	10.830	1.00	0.00	O
ATOM	1030	CB THR A	73157.464	3.753	11.372	1.00	0.00	C
ATOM	1031	OG1 THR A	73158.362	2.777	11.870	1.00	0.00	O
ATOM	1032	CG2 THR A	73156.384	3.954	12.413	1.00	0.00	C
ATOM	1033	H THR A	73155.431	4.845	10.052	1.00	0.00	H
ATOM	1034	HA THR A	73157.744	3.194	9.326	1.00	0.00	H
ATOM	1035	HB THR A	73158.000	4.685	11.266	1.00	0.00	H
ATOM	1036	HG1 THR A	73158.867	3.147	12.599	1.00	0.00	H
ATOM	1037	1HG2 THR A	73155.632	4.627	12.027	1.00	0.00	H
ATOM	1038	2HG2 THR A	73156.820	4.376	13.307	1.00	0.00	H

ATOM	1039	3HG2 THR A	73155.928	3.004	12.649	1.00	0.00	H
ATOM	1040	N CYS A	74156.636	0.994	9.447	1.00	0.00	N
ATOM	1041	CA CYS A	74155.997	-0.316	9.480	1.00	0.00	C
ATOM	1042	C CYS A	74157.038	-1.430	9.449	1.00	0.00	C
ATOM	1043	O CYS A	74158.223	-1.180	9.227	1.00	0.00	O
ATOM	1044	CB CYS A	74155.035	-0.468	8.300	1.00	0.00	C
ATOM	1045	SG CYS A	74153.348	0.085	8.647	1.00	0.00	S
ATOM	1046	H CYS A	74157.445	1.118	8.906	1.00	0.00	H
ATOM	1047	HA CYS A	74155.437	-0.388	10.401	1.00	0.00	H
ATOM	1048	1HB CYS A	74155.404	0.110	7.467	1.00	0.00	H
ATOM	1049	2HB CYS A	74154.988	-1.510	8.016	1.00	0.00	H
ATOM	1050	HG CYS A	74153.401	0.908	9.138	1.00	0.00	H
ATOM	1051	N ALA A	75156.588	-2.660	9.672	1.00	0.00	N
ATOM	1052	CA ALA A	75157.480	-3.812	9.669	1.00	0.00	C
ATOM	1053	C ALA A	75158.153	-3.983	8.311	1.00	0.00	C
ATOM	1054	O ALA A	75157.610	-3.575	7.284	1.00	0.00	O
ATOM	1055	CB ALA A	75156.716	-5.072	10.045	1.00	0.00	C
ATOM	1056	H ALA A	75155.632	-2.796	9.844	1.00	0.00	H
ATOM	1057	HA ALA A	75158.242	-3.646	10.418	1.00	0.00	H
ATOM	1058	1HB ALA A	75157.123	-5.915	9.504	1.00	0.00	H
ATOM	1059	2HB ALA A	75155.673	-4.950	9.789	1.00	0.00	H
ATOM	1060	3HB ALA A	75156.808	-5.247	11.106	1.00	0.00	H
ATOM	1061	N LEU A	76159.336	-4.586	8.313	1.00	0.00	N
ATOM	1062	CA LEU A	76160.083	-4.810	7.082	1.00	0.00	C
ATOM	1063	C LEU A	76159.374	-5.828	6.194	1.00	0.00	C
ATOM	1064	O LEU A	76158.801	-6.801	6.683	1.00	0.00	O
ATOM	1065	CB LEU A	76161.499	-5.293	7.399	1.00	0.00	C

ATOM	1066	CG	LEU A	76162.527	-4.183	7.624	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.542	-4.599	8.676	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.224	-3.830	6.317	1.00	0.00	C
ATOM	1069	H	LEU A	76159.717	-4.889	9.165	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.142	-3.870	6.555	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.458	-5.903	8.290	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.840	-5.907	6.579	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.020	-3.298	7.981	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.624	-5.676	8.690	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.221	-4.250	9.645	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.504	-4.168	8.439	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.411	-2.767	6.285	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.593	-4.110	5.487	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.160	-4.363	6.254	1.00	0.00	H
ATOM	1080	N	LYS A	77159.418	-5.596	4.885	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.781	-6.493	3.928	1.00	0.00	C
ATOM	1082	C	LYS A	77157.274	-6.555	4.159	1.00	0.00	C
ATOM	1083	O	LYS A	77156.666	-7.622	4.071	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.384	-7.895	4.030	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.904	-7.909	3.988	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.429	-7.427	2.644	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.780	-6.746	2.786	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.531	-6.729	1.501	1.00	0.00	N
ATOM	1089	H	LYS A	77159.891	-4.803	4.556	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.964	-6.103	2.937	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.067	-8.344	4.960	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.017	-8.493	3.208	1.00	0.00	H

ATOM	1093	1HG	LYS A	77161.281	-7.260	4.764	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.249	-8.917	4.159	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.531	-8.274	1.984	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.724	-6.725	2.224	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.624	-5.730	3.116	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.360	-7.279	3.526	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.321	-7.587	0.952	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.554	-6.690	1.685	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.260	-5.896	0.940	1.00	0.00	H
ATOM	1102	N	LYS A	78156.678	-5.405	4.456	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.242	-5.330	4.698	1.00	0.00	C
ATOM	1104	C	LYS A	78154.699	-3.953	4.332	1.00	0.00	C
ATOM	1105	O	LYS A	78153.843	-3.405	5.028	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.935	-5.640	6.166	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.495	-6.973	6.635	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.154	-7.238	8.094	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.009	-8.229	8.228	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.330	-8.117	9.549	1.00	0.00	N
ATOM	1111	H	LYS A	78157.215	-4.588	4.511	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.761	-6.070	4.077	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.357	-4.859	6.782	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.865	-5.654	6.302	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.075	-7.762	6.029	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.568	-6.962	6.522	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.025	-7.640	8.589	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.869	-6.307	8.561	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.289	-8.036	7.447	1.00	0.00	H

ATOM	1120	2HE	LYS A	78154.401	-9.230	8.117	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78154.026	-8.210	10.317	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.618	-8.867	9.649	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.859	-7.194	9.632	1.00	0.00	H
ATOM	1124	N	ALA A	79155.202	-3.396	3.235	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.767	-2.084	2.776	1.00	0.00	C
ATOM	1126	C	ALA A	79154.653	-2.043	1.255	1.00	0.00	C
ATOM	1127	O	ALA A	79155.661	-2.028	0.548	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.726	-1.009	3.264	1.00	0.00	C
ATOM	1129	H	ALA A	79155.881	-3.882	2.722	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.795	-1.886	3.204	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.708	-1.437	3.397	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.374	-0.614	4.205	1.00	0.00	H
ATOM	1133	3HB	ALA A	79155.776	-0.212	2.535	1.00	0.00	H
ATOM	1134	N	LEU A	80153.421	-2.027	0.759	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.175	-1.988	-0.678	1.00	0.00	C
ATOM	1136	C	LEU A	80152.304	-0.792	-1.048	1.00	0.00	C
ATOM	1137	O	LEU A	80151.153	-0.696	-0.626	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.504	-3.285	-1.136	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.136	-3.336	-2.619	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.365	-3.626	-3.465	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.059	-4.382	-2.864	1.00	0.00	C
ATOM	1142	H	LEU A	80152.657	-2.040	1.374	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.128	-1.893	-1.175	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.173	-4.106	-0.923	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.600	-3.421	-0.560	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.744	-2.374	-2.919	1.00	0.00	H

ATOM	1147	1HD1	LEU A	80154.197	-3.037	-3.105	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.163	-3.372	-4.494	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.612	-4.675	-3.394	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.214	-4.186	-2.222	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.455	-5.364	-2.649	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.743	-4.338	-3.897	1.00	0.00	H
ATOM	1153	N	PHE A	81152.863	0.117	-1.841	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.138	1.308	-2.268	1.00	0.00	C
ATOM	1155	C	PHE A	81151.403	1.057	-3.581	1.00	0.00	C
ATOM	1156	O	PHE A	81151.916	0.377	-4.471	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.099	2.487	-2.424	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.731	2.923	-1.133	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.185	3.960	-0.395	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.870	2.294	-0.657	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.763	4.364	0.794	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.454	2.693	0.531	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.899	3.729	1.258	1.00	0.00	C
ATOM	1164	H	PHE A	81153.785	-0.016	-2.145	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.413	1.545	-1.504	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.892	2.208	-3.104	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.561	3.330	-2.834	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.296	4.456	-0.756	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.305	1.485	-1.225	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.327	5.173	1.360	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.342	2.196	0.891	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.353	4.042	2.186	1.00	0.00	H
ATOM	1173	N	VAL A	82150.201	1.611	-3.696	1.00	0.00	N

ATOM	1174	CA	VAL A	82149.396	1.450	-4.900	1.00	0.00	C
ATOM	1175	C	VAL A	82148.446	2.627	-5.088	1.00	0.00	C
ATOM	1176	O	VAL A	82148.236	3.421	-4.169	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.577	0.146	-4.859	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.478	-1.058	-5.087	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.835	0.023	-3.537	1.00	0.00	C
ATOM	1180	H	VAL A	82149.847	2.143	-2.953	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.067	1.402	-5.746	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.848	0.177	-5.655	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.960	-0.970	-6.049	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.885	-1.960	-5.063	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82150.228	-1.099	-4.311	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82146.962	0.660	-3.553	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82148.485	0.325	-2.729	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.529	-1.002	-3.389	1.00	0.00	H
ATOM	1189	N	LYS A	83147.874	2.735	-6.282	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.945	3.817	-6.590	1.00	0.00	C
ATOM	1191	C	LYS A	83145.663	3.685	-5.774	1.00	0.00	C
ATOM	1192	O	LYS A	83144.975	2.666	-5.840	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.615	3.825	-8.083	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.845	3.823	-8.977	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.465	3.755	-10.449	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.155	4.845	-11.255	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.563	4.364	-12.604	1.00	0.00	N
ATOM	1198	H	LYS A	83148.081	2.072	-6.973	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.425	4.749	-6.331	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.027	2.949	-8.314	1.00	0.00	H

ATOM	1201	2HB	LYS A	83146.034	4.707	-8.307	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.406	4.728	-8.802	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.454	2.966	-8.732	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.757	2.793	-10.842	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.396	3.874	-10.542	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.475	5.675	-11.370	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.033	5.171	-10.717	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.980	3.549	-12.884	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.561	4.075	-12.595	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.440	5.122	-13.306	1.00	0.00	H
ATOM	1211	N	LEU A	84145.351	4.722	-5.006	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.153	4.729	-4.174	1.00	0.00	C
ATOM	1213	C	LEU A	84142.897	4.559	-5.024	1.00	0.00	C
ATOM	1214	O	LEU A	84141.895	4.013	-4.564	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.074	6.032	-3.377	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.801	6.209	-2.545	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.854	5.339	-1.299	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.610	7.670	-2.171	1.00	0.00	C
ATOM	1219	H	LEU A	84145.941	5.504	-4.998	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.224	3.900	-3.486	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.923	6.075	-2.712	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.141	6.857	-4.071	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.949	5.898	-3.133	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.534	4.516	-1.464	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84141.868	4.954	-1.086	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.199	5.929	-0.463	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.604	7.821	-1.808	1.00	0.00	H

ATOM	1228	2HD2	LEU A	84142.778	8.290	-3.039	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.315	7.939	-1.396	1.00	0.00	H
ATOM	1230	N	LYS A	85142.959	5.029	-6.266	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.824	4.929	-7.178	1.00	0.00	C
ATOM	1232	C	LYS A	85141.496	3.470	-7.482	1.00	0.00	C
ATOM	1233	O	LYS A	85140.349	3.130	-7.773	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.121	5.677	-8.479	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.275	5.088	-9.271	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.806	6.071	-10.302	1.00	0.00	C
ATOM	1237	CE	LYS A	85143.372	5.694	-11.709	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.416	6.020	-12.719	1.00	0.00	N
ATOM	1239	H	LYS A	85143.785	5.454	-6.576	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.972	5.383	-6.697	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.238	5.658	-9.100	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.362	6.703	-8.242	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.072	4.830	-8.590	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.932	4.197	-9.779	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.430	7.057	-10.072	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.886	6.077	-10.257	1.00	0.00	H
ATOM	1247	1HE	LYS A	85143.174	4.634	-11.740	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.469	6.235	-11.950	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.971	6.290	-13.620	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.027	5.195	-12.881	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.003	6.811	-12.384	1.00	0.00	H
ATOM	1252	N	SER A	86142.509	2.612	-7.413	1.00	0.00	N
ATOM	1253	CA	SER A	86142.324	1.190	-7.681	1.00	0.00	C
ATOM	1254	C	SER A	86142.256	0.396	-6.381	1.00	0.00	C

ATOM	1255	O	SER A	86142.707	-0.748	-6.314	1.00	0.00	O
ATOM	1256	CB	SER A	86143.464	0.661	-8.554	1.00	0.00	C
ATOM	1257	OG	SER A	86143.828	1.607	-9.546	1.00	0.00	O
ATOM	1258	H	SER A	86143.401	2.941	-7.176	1.00	0.00	H
ATOM	1259	HA	SER A	86141.392	1.071	-8.211	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.326	0.460	-7.936	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.149	-0.249	-9.042	1.00	0.00	H
ATOM	1262	HG	SER A	86144.758	1.505	-9.761	1.00	0.00	H
ATOM	1263	N	CYS A	87141.689	1.011	-5.347	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.562	0.362	-4.047	1.00	0.00	C
ATOM	1265	C	CYS A	87140.106	0.024	-3.747	1.00	0.00	C
ATOM	1266	O	CYS A	87139.191	0.546	-4.385	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.126	1.263	-2.946	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.933	1.305	-2.880	1.00	0.00	S
ATOM	1269	H	CYS A	87141.349	1.923	-5.461	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.132	-0.554	-4.077	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.781	2.273	-3.106	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.769	0.914	-1.989	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.197	1.221	-1.961	1.00	0.00	H
ATOM	1274	N	ARG A	88139.898	-0.854	-2.772	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.553	-1.266	-2.385	1.00	0.00	C
ATOM	1276	C	ARG A	88138.447	-1.417	-0.869	1.00	0.00	C
ATOM	1277	O	ARG A	88139.403	-1.831	-0.212	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.183	-2.584	-3.071	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.314	-2.402	-4.306	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.890	-2.876	-4.063	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.910	-2.045	-4.758	1.00	0.00	N

ATOM	1282	CZ	ARG A	88133.621	-2.356	-4.870	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.152	-3.476	-4.333	1.00	0.00	N
ATOM	1284	NH2	ARG A	88132.797	-1.545	-5.519	1.00	0.00	N
ATOM	1285	H	ARG A	88140.668	-1.236	-2.302	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.868	-0.497	-2.707	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.090	-3.088	-3.366	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.648	-3.205	-2.368	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.293	-1.355	-4.569	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.739	-2.972	-5.119	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.798	-3.893	-4.413	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.689	-2.842	-3.001	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.230	-1.212	-5.164	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.766	-4.092	-3.841	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.182	-3.703	-4.421	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.145	-0.699	-5.925	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88131.829	-1.778	-5.604	1.00	0.00	H
ATOM	1298	N	PRO A	89137.281	-1.084	-0.289	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.064	-1.190	1.153	1.00	0.00	C
ATOM	1300	C	PRO A	89137.008	-2.639	1.622	1.00	0.00	C
ATOM	1301	O	PRO A	89136.039	-3.351	1.359	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.714	-0.504	1.370	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.018	-0.570	0.057	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.088	-0.585	-0.997	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.830	-0.665	1.706	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.163	-1.036	2.125	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.871	0.517	1.682	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.429	-1.472	0.000	1.00	0.00	H

ATOM	1309	2HG	PRO A	89134.387	0.298	-0.066	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.811	-1.255	-1.793	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.256	0.411	-1.381	1.00	0.00	H
ATOM	1312	N	ASP A	90138.054	-3.069	2.319	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.128	-4.434	2.825	1.00	0.00	C
ATOM	1314	C	ASP A	90137.164	-4.636	3.990	1.00	0.00	C
ATOM	1315	O	ASP A	90137.120	-3.830	4.918	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.555	-4.759	3.267	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.889	-6.229	3.108	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.585	-6.796	2.037	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.457	-6.814	4.055	1.00	0.00	O
ATOM	1320	H	ASP A	90138.797	-2.454	2.495	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.848	-5.101	2.023	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.248	-4.184	2.671	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.673	-4.491	4.307	1.00	0.00	H
ATOM	1324	N	SER A	91136.396	-5.720	3.935	1.00	0.00	N
ATOM	1325	CA	SER A	91135.434	-6.029	4.986	1.00	0.00	C
ATOM	1326	C	SER A	91135.792	-7.340	5.682	1.00	0.00	C
ATOM	1327	O	SER A	91134.923	-8.023	6.222	1.00	0.00	O
ATOM	1328	CB	SER A	91134.023	-6.119	4.404	1.00	0.00	C
ATOM	1329	OG	SER A	91133.050	-5.735	5.359	1.00	0.00	O
ATOM	1330	H	SER A	91136.479	-6.326	3.170	1.00	0.00	H
ATOM	1331	HA	SER A	91135.465	-5.230	5.712	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.946	-5.467	3.547	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.828	-7.138	4.100	1.00	0.00	H
ATOM	1334	HG	SER A	91132.215	-6.165	5.157	1.00	0.00	H
ATOM	1335	N	ARG A	92137.076	-7.684	5.665	1.00	0.00	N

ATOM	1336	CA	ARG A	92137.546	-8.913	6.293	1.00	0.00	C
ATOM	1337	C	ARG A	92137.347	-8.863	7.804	1.00	0.00	C
ATOM	1338	O	ARG A	92137.151	-9.893	8.448	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.023	-9.143	5.969	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.262	-9.692	4.571	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.006	-11.019	4.610	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.227	-12.063	5.272	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.480	-13.364	5.153	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.489	-13.785	4.400	1.00	0.00	N
ATOM	1345	NH2	ARG A	92138.723	-14.248	5.790	1.00	0.00	N
ATOM	1346	H	ARG A	92137.723	-7.099	5.218	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.968	-9.731	5.893	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.550	-8.203	6.057	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.432	-9.842	6.684	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.308	-9.841	4.086	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.847	-8.978	4.010	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.217	-11.328	3.597	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.934	-10.880	5.144	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.476	-11.780	5.835	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.063	-13.125	3.917	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.674	-14.765	4.314	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92137.962	-13.936	6.358	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92138.913	-15.226	5.700	1.00	0.00	H
ATOM	1359	N	PHE A	93137.397	-7.659	8.364	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.223	-7.476	9.800	1.00	0.00	C
ATOM	1361	C	PHE A	93135.885	-6.812	10.112	1.00	0.00	C
ATOM	1362	O	PHE A	93135.734	-6.155	11.142	1.00	0.00	O

ATOM	1363	CB	PHE A	93138.367	-6.637	10.371	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.721	-7.254	10.173	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.279	-7.342	8.908	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.437	-7.747	11.253	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.526	-7.910	8.722	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.684	-8.317	11.074	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.229	-8.398	9.806	1.00	0.00	C
ATOM	1370	H	PHE A	93137.557	-6.874	7.799	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.241	-8.453	10.262	1.00	0.00	H
ATOM	1372	1HB	PHE A	93138.369	-5.670	9.889	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.212	-6.504	11.432	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.730	-6.960	8.059	1.00	0.00	H
ATOM	1375	HD2	PHE A	93140.012	-7.685	12.243	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.949	-7.972	7.731	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.231	-8.697	11.923	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.202	-8.842	9.664	1.00	0.00	H
ATOM	1379	N	ALAA	94134.916	-6.986	9.218	1.00	0.00	N
ATOM	1380	CA	ALAA	94133.595	-6.401	9.405	1.00	0.00	C
ATOM	1381	C	ALAA	94132.702	-7.316	10.237	1.00	0.00	C
ATOM	1382	O	ALAA	94132.468	-8.468	9.874	1.00	0.00	O
ATOM	1383	CB	ALAA	94132.949	-6.115	8.058	1.00	0.00	C
ATOM	1384	H	ALAA	94135.094	-7.520	8.415	1.00	0.00	H
ATOM	1385	HA	ALAA	94133.716	-5.462	9.925	1.00	0.00	H
ATOM	1386	1HB	ALAA	94133.541	-5.389	7.522	1.00	0.00	H
ATOM	1387	2HB	ALAA	94131.953	-5.726	8.211	1.00	0.00	H
ATOM	1388	3HB	ALAA	94132.893	-7.029	7.484	1.00	0.00	H
ATOM	1389	N	SER A	95132.209	-6.796	11.355	1.00	0.00	N

ATOM	1390	CA	SER A	95131.342	-7.566	12.239	1.00	0.00	C
ATOM	1391	C	SER A	95129.945	-7.708	11.644	1.00	0.00	C
ATOM	1392	O	SER A	95129.179	-6.746	11.599	1.00	0.00	O
ATOM	1393	CB	SER A	95131.257	-6.899	13.614	1.00	0.00	C
ATOM	1394	OG	SER A	95132.407	-7.186	14.392	1.00	0.00	O
ATOM	1395	H	SER A	95132.432	-5.870	11.591	1.00	0.00	H
ATOM	1396	HA	SER A	95131.774	-8.549	12.352	1.00	0.00	H
ATOM	1397	1HB	SER A	95131.182	-5.829	13.489	1.00	0.00	H
ATOM	1398	2HB	SER A	95130.385	-7.264	14.135	1.00	0.00	H
ATOM	1399	HG	SER A	95132.620	-8.119	14.315	1.00	0.00	H
ATOM	1400	N	LEU A	96129.621	-8.914	11.189	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.316	-9.182	10.596	1.00	0.00	C
ATOM	1402	C	LEU A	96127.644	-10.372	11.274	1.00	0.00	C
ATOM	1403	O	LEU A	96126.893	-11.115	10.643	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.460	-9.448	9.096	1.00	0.00	C
ATOM	1405	CG	LEU A	96127.305	-8.937	8.233	1.00	0.00	C
ATOM	1406	CD1	LEU A	96127.553	-7.499	7.806	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.113	-9.831	7.018	1.00	0.00	C
ATOM	1408	H	LEU A	96130.276	-9.640	11.253	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.701	-8.307	10.739	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.372	-8.980	8.754	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.545	-10.514	8.948	1.00	0.00	H
ATOM	1412	HG	LEU A	96126.394	-8.960	8.814	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96127.577	-6.864	8.679	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96126.761	-7.177	7.147	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96128.499	-7.436	7.289	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96127.426	-10.837	7.257	1.00	0.00	H

ATOM	1417	2HD2	LEU A	96127.705	-9.456	6.197	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.069	-9.836	6.736	1.00	0.00	H
ATOM	1419	N	GLN A	97127.920	-10.544	12.562	1.00	0.00	N
ATOM	1420	CA	GLN A	97127.342	-11.644	13.326	1.00	0.00	C
ATOM	1421	C	GLN A	97126.857	-11.162	14.692	1.00	0.00	C
ATOM	1422	O	GLN A	97127.477	-11.447	15.717	1.00	0.00	O
ATOM	1423	CB	GLN A	97128.367	-12.766	13.501	1.00	0.00	C
ATOM	1424	CG	GLN A	97127.750	-14.100	13.891	1.00	0.00	C
ATOM	1425	CD	GLN A	97127.539	-15.014	12.701	1.00	0.00	C
ATOM	1426	OE1	GLN A	97128.421	-15.789	12.335	1.00	0.00	O
ATOM	1427	NE2	GLN A	97126.362	-14.926	12.090	1.00	0.00	N
ATOM	1428	H	GLN A	97128.526	-9.919	13.009	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.497	-12.024	12.772	1.00	0.00	H
ATOM	1430	1HB	GLN A	97128.901	-12.899	12.571	1.00	0.00	H
ATOM	1431	2HB	GLN A	97129.069	-12.479	14.271	1.00	0.00	H
ATOM	1432	1HG	GLN A	97128.405	-14.594	14.593	1.00	0.00	H
ATOM	1433	2HG	GLN A	97126.794	-13.915	14.360	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97125.707	-14.287	12.436	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97126.199	-15.506	11.318	1.00	0.00	H
ATOM	1436	N	PRO A	98125.735	-10.422	14.723	1.00	0.00	N
ATOM	1437	CA	PRO A	98125.168	-9.901	15.972	1.00	0.00	C
ATOM	1438	C	PRO A	98124.976	-10.992	17.021	1.00	0.00	C
ATOM	1439	O	PRO A	98125.270	-12.161	16.775	1.00	0.00	O
ATOM	1440	CB	PRO A	98123.815	-9.331	15.539	1.00	0.00	C
ATOM	1441	CG	PRO A	98123.984	-9.006	14.096	1.00	0.00	C
ATOM	1442	CD	PRO A	98124.932	-10.038	13.547	1.00	0.00	C
ATOM	1443	HA	PRO A	98125.779	-9.111	16.383	1.00	0.00	H

ATOM	1444	1HB	PRO A	98123.045	-10.074	15.690	1.00	0.00	H
ATOM	1445	2HB	PRO A	98123.591	-8.449	16.118	1.00	0.00	H
ATOM	1446	1HG	PRO A	98123.031	-9.067	13.591	1.00	0.00	H
ATOM	1447	2HG	PRO A	98124.405	-8.017	13.989	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.386	-10.884	13.159	1.00	0.00	H
ATOM	1449	2HD	PRO A	98125.557	-9.605	12.779	1.00	0.00	H
ATOM	1450	N	SER A	99124.481	-10.600	18.190	1.00	0.00	N
ATOM	1451	CA	SER A	99124.250	-11.544	19.276	1.00	0.00	C
ATOM	1452	C	SER A	99123.171	-11.029	20.225	1.00	0.00	C
ATOM	1453	O	SER A	99123.050	-9.825	20.446	1.00	0.00	O
ATOM	1454	CB	SER A	99125.546	-11.794	20.048	1.00	0.00	C
ATOM	1455	OG	SER A	99126.246	-12.909	19.523	1.00	0.00	O
ATOM	1456	H	SER A	99124.265	-9.653	18.325	1.00	0.00	H
ATOM	1457	HA	SER A	99123.915	-12.474	18.841	1.00	0.00	H
ATOM	1458	1HB	SER A	99126.180	-10.922	19.976	1.00	0.00	H
ATOM	1459	2HB	SER A	99125.315	-11.985	21.086	1.00	0.00	H
ATOM	1460	HG	SER A	99126.177	-13.646	20.133	1.00	0.00	H
ATOM	1461	N	GLY A	100122.391	-11.949	20.781	1.00	0.00	N
ATOM	1462	CA	GLY A	100121.333	-11.568	21.698	1.00	0.00	C
ATOM	1463	C	GLY A	100120.669	-12.768	22.350	1.00	0.00	C
ATOM	1464	O	GLY A	100120.882	-13.029	23.534	1.00	0.00	O
ATOM	1465	H	GLY A	100122.534	-12.895	20.567	1.00	0.00	H
ATOM	1466	1HA	GLY A	100121.751	-10.939	22.470	1.00	0.00	H
ATOM	1467	2HA	GLY A	100120.586	-11.008	21.156	1.00	0.00	H
ATOM	1468	N	PRO A	101119.853	-13.522	21.595	1.00	0.00	N
ATOM	1469	CA	PRO A	101119.160	-14.704	22.119	1.00	0.00	C
ATOM	1470	C	PRO A	101120.116	-15.855	22.408	1.00	0.00	C

ATOM	1471	O	PRO A 1011	20.667 -16.463	21.490	1.00	0.00	O
ATOM	1472	CB	PRO A 1011	18.195 -15.080	20.993	1.00	0.00	C
ATOM	1473	CG	PRO A 1011	18.825 -14.540	19.758	1.00	0.00	C
ATOM	1474	CD	PRO A 1011	19.542 -13.284	20.172	1.00	0.00	C
ATOM	1475	HA	PRO A 1011	18.601 -14.469	23.014	1.00	0.00	H
ATOM	1476	1HB	PRO A 1011	18.090 -16.154	20.949	1.00	0.00	H
ATOM	1477	2HB	PRO A 1011	17.232 -14.626	21.174	1.00	0.00	H
ATOM	1478	1HG	PRO A 1011	19.528 -15.258	19.359	1.00	0.00	H
ATOM	1479	2HG	PRO A 1011	18.065 -14.313	19.026	1.00	0.00	H
ATOM	1480	1HD	PRO A 1011	20.447 -13.159	19.596	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	18.897 -12.426	20.058	1.00	0.00	H
ATOM	1482	N	SER A 1021	20.309 -16.151	23.689	1.00	0.00	N
ATOM	1483	CA	SER A 1021	21.200 -17.231	24.099	1.00	0.00	C
ATOM	1484	C	SER A 1021	20.630 -18.587	23.699	1.00	0.00	C
ATOM	1485	O	SER A 1021	19.414 -18.780	23.677	1.00	0.00	O
ATOM	1486	CB	SER A 1021	21.427 -17.187	25.611	1.00	0.00	C
ATOM	1487	OG	SER A 1021	22.349 -18.183	26.017	1.00	0.00	O
ATOM	1488	H	SER A 1021	19.841 -15.631	24.375	1.00	0.00	H
ATOM	1489	HA	SER A 1021	22.145 -17.090	23.598	1.00	0.00	H
ATOM	1490	1HB	SER A 1021	21.817 -16.219	25.886	1.00	0.00	H
ATOM	1491	2HB	SER A 1021	20.488 -17.354	26.119	1.00	0.00	H
ATOM	1492	HG	SER A 1021	23.180 -18.059	25.552	1.00	0.00	H
ATOM	1493	N	SER A 1031	21.516 -19.526	23.382	1.00	0.00	N
ATOM	1494	CA	SER A 1031	21.102 -20.866	22.981	1.00	0.00	C
ATOM	1495	C	SER A 1031	21.823 -21.928	23.805	1.00	0.00	C
ATOM	1496	O	SER A 1031	23.042 -22.072	23.719	1.00	0.00	O
ATOM	1497	CB	SER A 1031	21.377 -21.085	21.493	1.00	0.00	C

ATOM	1498	OG	SER A 1031	20.252	-20.729	20.707	1.00	0.00	O
ATOM	1499	H	SER A 1031	22.472	-19.313	23.418	1.00	0.00	H
ATOM	1500	HA	SER A 1031	20.039	-20.951	23.158	1.00	0.00	H
ATOM	1501	1HB	SER A 1031	22.217	-20.476	21.191	1.00	0.00	H
ATOM	1502	2HB	SER A 1031	21.607	-22.126	21.320	1.00	0.00	H
ATOM	1503	HG	SER A 1031	20.093	-21.410	20.049	1.00	0.00	H
ATOM	1504	N	GLY A 1041	21.061	-22.669	24.603	1.00	0.00	N
ATOM	1505	CA	GLY A 1041	21.646	-23.707	25.431	1.00	0.00	C
ATOM	1506	C	GLY A 1041	22.322	-23.152	26.668	1.00	0.00	C
ATOM	1507	O	GLY A 1041	23.503	-22.755	26.571	1.00	0.00	O
ATOM	1508	OXT	GLY A 1041	21.672	-23.112	27.733	1.00	0.00	O
ATOM	1509	H	GLY A 1041	20.094	-22.508	24.630	1.00	0.00	H
ATOM	1510	1HA	GLY A 1041	20.866	-24.390	25.736	1.00	0.00	H
ATOM	1511	2HA	GLY A 1041	22.375	-24.249	24.848	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 16

ATOM 1	N	GLY A	1114.465	13.647	-4.280	1.00	0.00	N
ATOM 2	CA	GLY A	1115.658	12.860	-4.696	1.00	0.00	C
ATOM 3	C	GLY A	1116.783	12.931	-3.682	1.00	0.00	C
ATOM 4	O	GLY A	1116.542	13.135	-2.492	1.00	0.00	O
ATOM 5	1H	GLY A	1114.611	14.656	-4.490	1.00	0.00	H
ATOM 6	2H	GLY A	1114.301	13.538	-3.259	1.00	0.00	H
ATOM 7	3H	GLY A	1113.622	13.317	-4.792	1.00	0.00	H
ATOM 8	1HA	GLY A	1115.368	11.827	-4.822	1.00	0.00	H
ATOM 9	2HA	GLY A	1116.016	13.241	-5.641	1.00	0.00	H

ATOM10	N	SER A	2118.014	12.764	-4.154	1.00	0.00	N
ATOM11	CA	SER A	2119.180	12.812	-3.281	1.00	0.00	C
ATOM12	C	SER A	2119.109	11.718	-2.218	1.00	0.00	C
ATOM13	O	SER A	2118.033	11.209	-1.910	1.00	0.00	O
ATOM14	CB	SER A	2119.288	14.183	-2.611	1.00	0.00	C
ATOM15	OG	SER A	2120.412	14.244	-1.750	1.00	0.00	O
ATOM16	H	SER A	2118.141	12.606	-5.113	1.00	0.00	H
ATOM17	HA	SER A	2120.057	12.649	-3.889	1.00	0.00	H
ATOM18	1HB	SER A	2119.391	14.944	-3.370	1.00	0.00	H
ATOM19	2HB	SER A	2118.395	14.369	-2.033	1.00	0.00	H
ATOM20	HG	SER A	2120.671	15.160	-1.627	1.00	0.00	H
ATOM21	N	SER A	3120.263	11.363	-1.664	1.00	0.00	N
ATOM22	CA	SER A	3120.332	10.331	-0.637	1.00	0.00	C
ATOM23	C	SER A	3119.649	10.793	0.646	1.00	0.00	C
ATOM24	O	SER A	3119.225	11.943	0.756	1.00	0.00	O
ATOM25	CB	SER A	3121.790	9.965	-0.348	1.00	0.00	C
ATOM26	OG	SER A	3122.435	9.482	-1.514	1.00	0.00	O
ATOM27	H	SER A	3121.089	11.806	-1.953	1.00	0.00	H
ATOM28	HA	SER A	3119.819	9.458	-1.009	1.00	0.00	H
ATOM29	1HB	SER A	3122.316	10.840	0.002	1.00	0.00	H
ATOM30	2HB	SER A	3121.822	9.198	0.411	1.00	0.00	H
ATOM31	HG	SER A	3122.692	10.223	-2.067	1.00	0.00	H
ATOM32	N	GLY A	4119.545	9.888	1.614	1.00	0.00	N
ATOM33	CA	GLY A	4118.912	10.221	2.876	1.00	0.00	C
ATOM34	C	GLY A	4119.917	10.581	3.953	1.00	0.00	C
ATOM35	O	GLY A	4119.656	10.397	5.141	1.00	0.00	O
ATOM36	H	GLY A	4119.901	8.986	1.470	1.00	0.00	H

ATOM37	1HA	GLY A	4118.249	11.060	2.723	1.00	0.00	H
ATOM38	2HA	GLY A	4118.331	9.374	3.210	1.00	0.00	H
ATOM39	N	SER A	5121.069	11.095	3.536	1.00	0.00	N
ATOM40	CA	SER A	5122.118	11.481	4.474	1.00	0.00	C
ATOM41	C	SER A	5122.635	12.882	4.162	1.00	0.00	C
ATOM42	O	SER A	5123.763	13.050	3.698	1.00	0.00	O
ATOM43	CB	SER A	5123.269	10.475	4.427	1.00	0.00	C
ATOM44	OG	SER A	5124.148	10.652	5.523	1.00	0.00	O
ATOM45	H	SER A	5121.219	11.217	2.575	1.00	0.00	H
ATOM46	HA	SER A	5121.691	11.480	5.465	1.00	0.00	H
ATOM47	1HB	SER A	5122.870	9.472	4.461	1.00	0.00	H
ATOM48	2HB	SER A	5123.824	10.609	3.510	1.00	0.00	H
ATOM49	HG	SER A	5125.049	10.735	5.201	1.00	0.00	H
ATOM50	N	SER A	6121.802	13.885	4.419	1.00	0.00	N
ATOM51	CA	SER A	6122.174	15.272	4.165	1.00	0.00	C
ATOM52	C	SER A	6122.528	15.487	2.696	1.00	0.00	C
ATOM53	O	SER A	6123.240	16.430	2.350	1.00	0.00	O
ATOM54	CB	SER A	6123.357	15.675	5.048	1.00	0.00	C
ATOM55	OG	SER A	6123.715	17.028	4.837	1.00	0.00	O
ATOM56	H	SER A	6120.916	13.687	4.787	1.00	0.00	H
ATOM57	HA	SER A	6121.326	15.893	4.412	1.00	0.00	H
ATOM58	1HB	SER A	6123.089	15.544	6.086	1.00	0.00	H
ATOM59	2HB	SER A	6124.206	15.048	4.815	1.00	0.00	H
ATOM60	HG	SER A	6124.530	17.069	4.329	1.00	0.00	H
ATOM61	N	GLY A	7122.025	14.607	1.832	1.00	0.00	N
ATOM62	CA	GLY A	7122.298	14.722	0.411	1.00	0.00	C
ATOM63	C	GLY A	7123.782	14.785	0.103	1.00	0.00	C

ATOM64	O	GLY A	7124.188	15.347	-0.914	1.00	0.00	O
ATOM65	H	GLY A	7121.462	13.877	2.162	1.00	0.00	H
ATOM66	1HA	GLY A	7121.875	13.867	-0.095	1.00	0.00	H
ATOM67	2HA	GLY A	7121.826	15.617	0.036	1.00	0.00	H
ATOM68	N	LEU A	8124.593	14.208	0.985	1.00	0.00	N
ATOM69	CA	LEU A	8126.040	14.204	0.802	1.00	0.00	C
ATOM70	C	LEU A	8126.654	12.914	1.338	1.00	0.00	C
ATOM71	O	LEU A	8126.101	12.277	2.233	1.00	0.00	O
ATOM72	CB	LEU A	8126.668	15.410	1.502	1.00	0.00	C
ATOM73	CG	LEU A	8126.465	16.749	0.792	1.00	0.00	C
ATOM74	CD1	LEU A	8126.371	17.881	1.803	1.00	0.00	C
ATOM75	CD2	LEU A	8127.595	17.004	-0.194	1.00	0.00	C
ATOM76	H	LEU A	8124.210	13.777	1.777	1.00	0.00	H
ATOM77	HA	LEU A	8126.241	14.270	-0.258	1.00	0.00	H
ATOM78	1HB	LEU A	8126.244	15.484	2.494	1.00	0.00	H
ATOM79	2HB	LEU A	8127.729	15.235	1.594	1.00	0.00	H
ATOM80	HG	LEU A	8125.537	16.718	0.238	1.00	0.00	H
ATOM81	1HD1	LEU A	8125.365	17.934	2.193	1.00	0.00	H
ATOM82	2HD1	LEU A	8126.619	18.815	1.321	1.00	0.00	H
ATOM83	3HD1	LEU A	8127.061	17.699	2.613	1.00	0.00	H
ATOM84	1HD2	LEU A	8127.586	16.240	-0.958	1.00	0.00	H
ATOM85	2HD2	LEU A	8128.540	16.980	0.328	1.00	0.00	H
ATOM86	3HD2	LEU A	8127.462	17.973	-0.652	1.00	0.00	H
ATOM87	N	ALAA	9127.801	12.537	0.783	1.00	0.00	N
ATOM88	CA	ALAA	9128.491	11.324	1.204	1.00	0.00	C
ATOM89	C	ALAA	9129.942	11.326	0.735	1.00	0.00	C
ATOM90	O	ALAA	9130.521	10.272	0.470	1.00	0.00	O

ATOM91	CB	ALA A	9127.766	10.095	0.677	1.00	0.00	C	
ATOM92	H	ALA A	9128.193	13.087	0.072	1.00	0.00	H	
ATOM93	HA	ALA A	9128.473	11.288	2.284	1.00	0.00	H	
ATOM94	1HB	ALA A	9128.252	9.203	1.046	1.00	0.00	H	
ATOM95	2HB	ALA A	9127.791	10.097	-0.403	1.00	0.00	H	
ATOM96	3HB	ALA A	9126.740	10.110	1.012	1.00	0.00	H	
ATOM97	N	MET A	10130.524	12.517	0.633	1.00	0.00	N	
ATOM98	CA	MET A	10131.908	12.656	0.195	1.00	0.00	C	
ATOM99	C	MET A	10132.400	14.089	0.386	1.00	0.00	C	
ATOM	100	O	MET A	10132.681	14.794	-0.583	1.00	0.00	O
ATOM	101	CB	MET A	10132.042	12.247	-1.274	1.00	0.00	C
ATOM	102	CG	MET A	10131.090	12.986	-2.200	1.00	0.00	C
ATOM	103	SD	MET A	10129.481	12.181	-2.329	1.00	0.00	S
ATOM	104	CE	MET A	10128.429	13.582	-2.694	1.00	0.00	C
ATOM	105	H	MET A	10130.012	13.321	0.857	1.00	0.00	H
ATOM	106	HA	MET A	10132.514	11.996	0.799	1.00	0.00	H
ATOM	107	1HB	MET A	10133.053	12.445	-1.599	1.00	0.00	H
ATOM	108	2HB	MET A	10131.847	11.189	-1.361	1.00	0.00	H
ATOM	109	1HG	MET A	10130.946	13.987	-1.823	1.00	0.00	H
ATOM	110	2HG	MET A	10131.532	13.034	-3.185	1.00	0.00	H
ATOM	111	1HE	MET A	10127.605	13.263	-3.315	1.00	0.00	H
ATOM	112	2HE	MET A	10129.001	14.335	-3.216	1.00	0.00	H
ATOM	113	3HE	MET A	10128.046	13.996	-1.773	1.00	0.00	H
ATOM	114	N	PRO A	11132.508	14.542	1.648	1.00	0.00	N
ATOM	115	CA	PRO A	11132.967	15.899	1.963	1.00	0.00	C
ATOM	116	C	PRO A	11134.349	16.201	1.385	1.00	0.00	C
ATOM	117	O	PRO A	11134.556	17.252	0.777	1.00	0.00	O

ATOM	118	CB	PRO A	11133.008	15.926	3.495	1.00	0.00 C
ATOM	119	CG	PRO A	11132.100	14.826	3.926	1.00	0.00 C
ATOM	120	CD	PRO A	11132.192	13.770	2.862	1.00	0.00 C
ATOM	121	HA	PRO A	11132.266	16.640	1.609	1.00	0.00 H
ATOM	122	1HB	PRO A	11134.020	15.761	3.834	1.00	0.00 H
ATOM	123	2HB	PRO A	11132.658	16.885	3.848	1.00	0.00 H
ATOM	124	1HG	PRO A	11132.429	14.430	4.876	1.00	0.00 H
ATOM	125	2HG	PRO A	11131.088	15.194	4.003	1.00	0.00 H
ATOM	126	1HD	PRO A	11132.981	13.070	3.091	1.00	0.00 H
ATOM	127	2HD	PRO A	11131.248	13.256	2.757	1.00	0.00 H
ATOM	128	N	PRO A	12135.322	15.287	1.564	1.00	0.00 N
ATOM	129	CA	PRO A	12136.681	15.479	1.054	1.00	0.00 C
ATOM	130	C	PRO A	12136.793	15.157	-0.433	1.00	0.00 C
ATOM	131	O	PRO A	12137.545	15.802	-1.162	1.00	0.00 O
ATOM	132	CB	PRO A	12137.499	14.491	1.880	1.00	0.00 C
ATOM	133	CG	PRO A	12136.553	13.379	2.178	1.00	0.00 C
ATOM	134	CD	PRO A	12135.182	13.999	2.276	1.00	0.00 C
ATOM	135	HA	PRO A	12137.034	16.484	1.233	1.00	0.00 H
ATOM	136	1HB	PRO A	12138.346	14.149	1.303	1.00	0.00 H
ATOM	137	2HB	PRO A	12137.843	14.970	2.785	1.00	0.00 H
ATOM	138	1HG	PRO A	12136.578	12.654	1.379	1.00	0.00 H
ATOM	139	2HG	PRO A	12136.821	12.913	3.115	1.00	0.00 H
ATOM	140	1HD	PRO A	12134.453	13.369	1.790	1.00	0.00 H
ATOM	141	2HD	PRO A	12134.916	14.157	3.310	1.00	0.00 H
ATOM	142	N	GLY A	13136.040	14.155	-0.875	1.00	0.00 N
ATOM	143	CA	GLY A	13136.070	13.766	-2.274	1.00	0.00 C
ATOM	144	C	GLY A	13136.942	12.551	-2.519	1.00	0.00 C

ATOM	145	O	GLY A	13137.708	12.513	-3.482	1.00	0.00	O
ATOM	146	H	GLY A	13135.459	13.677	-0.248	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.063	13.544	-2.595	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.449	14.592	-2.857	1.00	0.00	H
ATOM	149	N	ASN A	14136.825	11.556	-1.647	1.00	0.00	N
ATOM	150	CA	ASN A	14137.610	10.332	-1.773	1.00	0.00	C
ATOM	151	C	ASN A	14136.722	9.154	-2.163	1.00	0.00	C
ATOM	152	O	ASN A	14135.495	9.265	-2.170	1.00	0.00	O
ATOM	153	CB	ASN A	14138.334	10.028	-0.461	1.00	0.00	C
ATOM	154	CG	ASN A	14139.513	10.951	-0.224	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.973	11.636	-1.137	1.00	0.00	O
ATOM	156	ND2	ASN A	14140.010	10.973	1.008	1.00	0.00	N
ATOM	157	H	ASN A	14136.197	11.645	-0.899	1.00	0.00	H
ATOM	158	HA	ASN A	14138.343	10.487	-2.550	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.642	10.142	0.360	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.695	9.010	-0.484	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.593	10.400	1.685	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.773	11.561	1.189	1.00	0.00	H
ATOM	163	N	SER A	15137.349	8.029	-2.486	1.00	0.00	N
ATOM	164	CA	SER A	15136.615	6.831	-2.877	1.00	0.00	C
ATOM	165	C	SER A	15135.895	6.219	-1.680	1.00	0.00	C
ATOM	166	O	SER A	15136.454	5.388	-0.966	1.00	0.00	O
ATOM	167	CB	SER A	15137.567	5.803	-3.493	1.00	0.00	C
ATOM	168	OG	SER A	15137.683	5.990	-4.893	1.00	0.00	O
ATOM	169	H	SER A	15138.329	8.003	-2.461	1.00	0.00	H
ATOM	170	HA	SER A	15135.882	7.118	-3.615	1.00	0.00	H
ATOM	171	1HB	SER A	15138.545	5.907	-3.047	1.00	0.00	H

ATOM	172	2HB	SER A	15137.190	4.808	-3.306	1.00	0.00	H
ATOM	173	HG	SER A	15138.354	5.400	-5.241	1.00	0.00	H
ATOM	174	N	HIS A	16134.650	6.639	-1.469	1.00	0.00	N
ATOM	175	CA	HIS A	16133.844	6.136	-0.358	1.00	0.00	C
ATOM	176	C	HIS A	16134.419	6.586	0.982	1.00	0.00	C
ATOM	177	O	HIS A	16133.836	7.427	1.667	1.00	0.00	O
ATOM	178	CB	HIS A	16133.757	4.609	-0.406	1.00	0.00	C
ATOM	179	CG	HIS A	16133.274	4.077	-1.718	1.00	0.00	C
ATOM	180	ND1	HIS A	16132.095	3.374	-1.857	1.00	0.00	N
ATOM	181	CD2	HIS A	16133.814	4.149	-2.958	1.00	0.00	C
ATOM	182	CE1	HIS A	16131.933	3.035	-3.125	1.00	0.00	C
ATOM	183	NE2	HIS A	16132.962	3.494	-3.813	1.00	0.00	N
ATOM	184	H	HIS A	16134.262	7.303	-2.075	1.00	0.00	H
ATOM	185	HA	HIS A	16132.851	6.547	-0.463	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.735	4.192	-0.220	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.077	4.271	0.362	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.470	3.155	-1.135	1.00	0.00	H
ATOM	189	HD2	HIS A	16134.745	4.631	-3.225	1.00	0.00	H
ATOM	190	HE1	HIS A	16131.101	2.479	-3.529	1.00	0.00	H
ATOM	191	HE2	HIS A	16133.134	3.313	-4.760	1.00	0.00	H
ATOM	192	N	GLY A	17135.564	6.022	1.351	1.00	0.00	N
ATOM	193	CA	GLY A	17136.196	6.379	2.607	1.00	0.00	C
ATOM	194	C	GLY A	17137.537	5.697	2.796	1.00	0.00	C
ATOM	195	O	GLY A	17137.723	4.930	3.741	1.00	0.00	O
ATOM	196	H	GLY A	17135.983	5.358	0.765	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.342	7.448	2.633	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.543	6.095	3.419	1.00	0.00	H

ATOM	199	N	LEU A	18138.473	5.976	1.895	1.00	0.00	N
ATOM	200	CA	LEU A	18139.804	5.384	1.966	1.00	0.00	C
ATOM	201	C	LEU A	18140.828	6.406	2.448	1.00	0.00	C
ATOM	202	O	LEU A	18141.251	7.280	1.691	1.00	0.00	O
ATOM	203	CB	LEU A	18140.215	4.837	0.598	1.00	0.00	C
ATOM	204	CG	LEU A	18139.384	3.655	0.096	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.678	3.382	-1.370	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.658	2.418	0.937	1.00	0.00	C
ATOM	207	H	LEU A	18138.264	6.595	1.164	1.00	0.00	H
ATOM	208	HA	LEU A	18139.766	4.569	2.673	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.138	5.638	-0.124	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.247	4.524	0.655	1.00	0.00	H
ATOM	211	HG	LEU A	18138.335	3.897	0.187	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.829	4.317	-1.888	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.844	2.856	-1.812	1.00	0.00	H
ATOM	214	3HD1	LEU A	18140.569	2.776	-1.452	1.00	0.00	H
ATOM	215	1HD2	LEU A	18140.707	2.381	1.193	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.394	1.534	0.375	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.068	2.458	1.841	1.00	0.00	H
ATOM	218	N	GLU A	19141.224	6.289	3.711	1.00	0.00	N
ATOM	219	CA	GLU A	19142.200	7.202	4.294	1.00	0.00	C
ATOM	220	C	GLU A	19143.132	6.464	5.249	1.00	0.00	C
ATOM	221	O	GLU A	19142.949	5.275	5.516	1.00	0.00	O
ATOM	222	CB	GLU A	19141.489	8.339	5.032	1.00	0.00	C
ATOM	223	CG	GLU A	19140.515	7.858	6.094	1.00	0.00	C
ATOM	224	CD	GLU A	19140.123	8.956	7.064	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.696	9.002	8.173	1.00	0.00	O

ATOM	226	OE2	GLU A	19139.243	9.770	6.714	1.00	0.00	O
ATOM	227	H	GLU A	19140.851	5.571	4.264	1.00	0.00	H
ATOM	228	HA	GLU A	19142.786	7.619	3.489	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.232	8.962	5.510	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.942	8.931	4.314	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.623	7.493	5.608	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.975	7.055	6.650	1.00	0.00	H
ATOM	233	N	VAL A	20144.131	7.174	5.761	1.00	0.00	N
ATOM	234	CA	VAL A	20145.091	6.585	6.688	1.00	0.00	C
ATOM	235	C	VAL A	20144.396	6.059	7.939	1.00	0.00	C
ATOM	236	O	VAL A	20143.606	6.765	8.566	1.00	0.00	O
ATOM	237	CB	VAL A	20146.169	7.603	7.102	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.263	6.925	7.911	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.753	8.291	5.876	1.00	0.00	C
ATOM	240	H	VAL A	20144.225	8.117	5.511	1.00	0.00	H
ATOM	241	HA	VAL A	20145.577	5.762	6.184	1.00	0.00	H
ATOM	242	HB	VAL A	20145.707	8.355	7.723	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.901	6.726	8.909	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.127	7.571	7.963	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.538	5.994	7.436	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.901	7.563	5.091	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.699	8.743	6.133	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.070	9.056	5.534	1.00	0.00	H
ATOM	249	N	GLY A	21144.697	4.815	8.297	1.00	0.00	N
ATOM	250	CA	GLY A	21144.093	4.215	9.472	1.00	0.00	C
ATOM	251	C	GLY A	21143.030	3.192	9.121	1.00	0.00	C
ATOM	252	O	GLY A	21142.786	2.255	9.881	1.00	0.00	O

ATOM	253	H	GLY A	21145.333	4.300	7.759	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.865	3.732	10.053	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.643	4.995	10.070	1.00	0.00	H
ATOM	256	N	SER A	22142.395	3.373	7.967	1.00	0.00	N
ATOM	257	CA	SER A	22141.352	2.458	7.518	1.00	0.00	C
ATOM	258	C	SER A	22141.942	1.331	6.678	1.00	0.00	C
ATOM	259	O	SER A	22143.029	1.465	6.115	1.00	0.00	O
ATOM	260	CB	SER A	22140.297	3.214	6.710	1.00	0.00	C
ATOM	261	OG	SER A	22139.734	4.272	7.466	1.00	0.00	O
ATOM	262	H	SER A	22142.634	4.140	7.406	1.00	0.00	H
ATOM	263	HA	SER A	22140.885	2.032	8.393	1.00	0.00	H
ATOM	264	1HB	SER A	22140.753	3.627	5.822	1.00	0.00	H
ATOM	265	2HB	SER A	22139.508	2.533	6.424	1.00	0.00	H
ATOM	266	HG	SER A	22140.433	4.752	7.915	1.00	0.00	H
ATOM	267	N	LEU A	23141.218	0.219	6.597	1.00	0.00	N
ATOM	268	CA	LEU A	23141.669	-0.934	5.826	1.00	0.00	C
ATOM	269	C	LEU A	23141.184	-0.848	4.382	1.00	0.00	C
ATOM	270	O	LEU A	23140.137	-0.263	4.103	1.00	0.00	O
ATOM	271	CB	LEU A	23141.171	-2.230	6.468	1.00	0.00	C
ATOM	272	CG	LEU A	23141.497	-2.384	7.954	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.442	-3.232	8.646	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.878	-2.995	8.135	1.00	0.00	C
ATOM	275	H	LEU A	23140.360	0.172	7.069	1.00	0.00	H
ATOM	276	HA	LEU A	23142.750	-0.933	5.830	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.098	-2.276	6.348	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.610	-3.062	5.938	1.00	0.00	H
ATOM	279	HG	LEU A	23141.499	-1.409	8.417	1.00	0.00	H

ATOM	280	1HD1	LEU A	23140.296	-2.872	9.655	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.769	-4.261	8.676	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.512	-3.164	8.103	1.00	0.00	H
ATOM	283	1HD2	LEU A	23142.787	-4.066	8.242	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.341	-2.583	9.019	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.487	-2.771	7.271	1.00	0.00	H
ATOM	286	N	ALAA	24141.952	-1.432	3.469	1.00	0.00	N
ATOM	287	CA	ALAA	24141.601	-1.421	2.054	1.00	0.00	C
ATOM	288	C	ALAA	24142.116	-2.673	1.351	1.00	0.00	C
ATOM	289	O	ALAA	24142.944	-3.405	1.892	1.00	0.00	O
ATOM	290	CB	ALAA	24142.151	-0.172	1.384	1.00	0.00	C
ATOM	291	H	ALAA	24142.775	-1.883	3.753	1.00	0.00	H
ATOM	292	HA	ALAA	24140.523	-1.397	1.979	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.804	-0.130	0.362	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.231	-0.203	1.396	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.809	0.702	1.917	1.00	0.00	H
ATOM	296	N	GLU A	25141.621	-2.911	0.140	1.00	0.00	N
ATOM	297	CA	GLU A	25142.032	-4.073	-0.638	1.00	0.00	C
ATOM	298	C	GLU A	25142.413	-3.670	-2.059	1.00	0.00	C
ATOM	299	O	GLU A	25141.857	-2.724	-2.616	1.00	0.00	O
ATOM	300	CB	GLU A	25140.909	-5.112	-0.675	1.00	0.00	C
ATOM	301	CG	GLU A	25141.354	-6.471	-1.189	1.00	0.00	C
ATOM	302	CD	GLU A	25140.264	-7.186	-1.963	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.483	-7.486	-3.156	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.193	-7.448	-1.377	1.00	0.00	O
ATOM	305	H	GLU A	25140.964	-2.290	-0.238	1.00	0.00	H
ATOM	306	HA	GLU A	25142.896	-4.507	-0.156	1.00	0.00	H

ATOM	307	1HB	GLU A	25140.519	-5.238	0.324	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.121	-4.749	-1.316	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.206	-6.336	-1.839	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.639	-7.085	-0.346	1.00	0.00	H
ATOM	311	N	VAL A	26143.365	-4.393	-2.639	1.00	0.00	N
ATOM	312	CA	VAL A	26143.818	-4.111	-3.996	1.00	0.00	C
ATOM	313	C	VAL A	26143.404	-5.220	-4.956	1.00	0.00	C
ATOM	314	O	VAL A	26143.286	-6.381	-4.564	1.00	0.00	O
ATOM	315	CB	VAL A	26145.348	-3.944	-4.054	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.781	-3.452	-5.427	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.824	-2.994	-2.964	1.00	0.00	C
ATOM	318	H	VAL A	26143.770	-5.136	-2.145	1.00	0.00	H
ATOM	319	HA	VAL A	26143.363	-3.184	-4.314	1.00	0.00	H
ATOM	320	HB	VAL A	26145.803	-4.909	-3.884	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.067	-4.295	-6.038	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.621	-2.781	-5.321	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.960	-2.929	-5.897	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.567	-3.399	-1.997	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.347	-2.033	-3.091	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.895	-2.875	-3.033	1.00	0.00	H
ATOM	327	N	LYS A	27143.181	-4.855	-6.214	1.00	0.00	N
ATOM	328	CA	LYS A	27142.779	-5.820	-7.230	1.00	0.00	C
ATOM	329	C	LYS A	27143.997	-6.413	-7.931	1.00	0.00	C
ATOM	330	O	LYS A	27144.477	-5.869	-8.926	1.00	0.00	O
ATOM	331	CB	LYS A	27141.857	-5.158	-8.255	1.00	0.00	C
ATOM	332	CG	LYS A	27141.362	-6.110	-9.332	1.00	0.00	C
ATOM	333	CD	LYS A	27140.993	-5.366	-10.605	1.00	0.00	C

ATOM	334	CE	LYS A	27139.489	-5.171	-10.721	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.857	-6.224	-11.562	1.00	0.00	N
ATOM	336	H	LYS A	27143.291	-3.914	-6.465	1.00	0.00	H
ATOM	337	HA	LYS A	27142.241	-6.616	-6.736	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.998	-4.753	-7.741	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.392	-4.352	-8.735	1.00	0.00	H
ATOM	340	1HG	LYS A	27142.143	-6.821	-9.557	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.492	-6.633	-8.965	1.00	0.00	H
ATOM	342	1HD	LYS A	27141.472	-4.398	-10.598	1.00	0.00	H
ATOM	343	2HD	LYS A	27141.340	-5.934	-11.456	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.059	-5.204	-9.732	1.00	0.00	H
ATOM	345	2HE	LYS A	27139.298	-4.204	-11.164	1.00	0.00	H
ATOM	346	1HZ	LYS A	27139.514	-6.530	-12.307	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.993	-5.854	-12.008	1.00	0.00	H
ATOM	348	3HZ	LYS A	27138.606	-7.046	-10.976	1.00	0.00	H
ATOM	349	N	GLU A	28144.491	-7.528	-7.406	1.00	0.00	N
ATOM	350	CA	GLU A	28145.652	-8.196	-7.982	1.00	0.00	C
ATOM	351	C	GLU A	28145.452	-9.707	-8.012	1.00	0.00	C
ATOM	352	O	GLU A	28144.372	-10.206	-7.696	1.00	0.00	O
ATOM	353	CB	GLU A	28146.913	-7.849	-7.187	1.00	0.00	C
ATOM	354	CG	GLU A	28148.072	-7.381	-8.054	1.00	0.00	C
ATOM	355	CD	GLU A	28149.197	-8.396	-8.122	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.946	-8.520	-7.131	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.328	-9.067	-9.168	1.00	0.00	O
ATOM	358	H	GLU A	28144.064	-7.914	-6.613	1.00	0.00	H
ATOM	359	HA	GLU A	28145.769	-7.841	-8.996	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.677	-7.063	-6.485	1.00	0.00	H

ATOM	361	2HB	GLU A	28147.232	-8.724	-6.637	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.705	-7.205	-9.055	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.461	-6.460	-7.646	1.00	0.00	H
ATOM	364	N	ASN A	29146.499	-10.431	-8.393	1.00	0.00	N
ATOM	365	CA	ASN A	29146.438	-11.886	-8.463	1.00	0.00	C
ATOM	366	C	ASN A	29146.389	-12.496	-7.064	1.00	0.00	C
ATOM	367	O	ASN A	29145.446	-13.209	-6.723	1.00	0.00	O
ATOM	368	CB	ASN A	29147.643	-12.432	-9.232	1.00	0.00	C
ATOM	369	CG	ASN A	29147.314	-12.736	-10.680	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.172	-13.897	-11.066	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.191	-11.693	-11.491	1.00	0.00	N
ATOM	372	H	ASN A	29147.333	-9.976	-8.632	1.00	0.00	H
ATOM	373	HA	ASN A	29145.535	-12.153	-8.990	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.437	-11.702	-9.209	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.983	-13.342	-8.760	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.318	-10.797	-11.114	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.979	-11.860	-12.433	1.00	0.00	H
ATOM	378	N	PRO A	30147.409	-12.221	-6.232	1.00	0.00	N
ATOM	379	CA	PRO A	30147.478	-12.745	-4.866	1.00	0.00	C
ATOM	380	C	PRO A	30146.589	-11.964	-3.899	1.00	0.00	C
ATOM	381	O	PRO A	30146.864	-10.804	-3.593	1.00	0.00	O
ATOM	382	CB	PRO A	30148.950	-12.559	-4.504	1.00	0.00	C
ATOM	383	CG	PRO A	30149.375	-11.360	-5.279	1.00	0.00	C
ATOM	384	CD	PRO A	30148.576	-11.377	-6.557	1.00	0.00	C
ATOM	385	HA	PRO A	30147.224	-13.794	-4.829	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.045	-12.398	-3.440	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.510	-13.435	-4.795	1.00	0.00	H

ATOM	388	1HG	PRO A	30149.160	-10.464	-4.715	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.431	-11.421	-5.498	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.266	-10.377	-6.820	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.155	-11.815	-7.357	1.00	0.00	H
ATOM	392	N	PRO A	31145.506	-12.589	-3.400	1.00	0.00	N
ATOM	393	CA	PRO A	31144.582	-11.938	-2.465	1.00	0.00	C
ATOM	394	C	PRO A	31145.273	-11.512	-1.174	1.00	0.00	C
ATOM	395	O	PRO A	31145.292	-12.256	-0.194	1.00	0.00	O
ATOM	396	CB	PRO A	31143.530	-13.017	-2.176	1.00	0.00	C
ATOM	397	CG	PRO A	31143.649	-13.986	-3.302	1.00	0.00	C
ATOM	398	CD	PRO A	31145.095	-13.970	-3.704	1.00	0.00	C
ATOM	399	HA	PRO A	31144.106	-11.078	-2.915	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.743	-13.486	-1.228	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.549	-12.566	-2.148	1.00	0.00	H
ATOM	402	1HG	PRO A	31143.363	-14.973	-2.970	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.027	-13.671	-4.127	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.659	-14.680	-3.117	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.197	-14.180	-4.758	1.00	0.00	H
ATOM	406	N	PHE A	32145.839	-10.310	-1.180	1.00	0.00	N
ATOM	407	CA	PHE A	32146.531	-9.786	-0.008	1.00	0.00	C
ATOM	408	C	PHE A	32145.739	-8.650	0.630	1.00	0.00	C
ATOM	409	O	PHE A	32145.153	-7.821	-0.066	1.00	0.00	O
ATOM	410	CB	PHE A	32147.929	-9.295	-0.391	1.00	0.00	C
ATOM	411	CG	PHE A	32147.920	-8.172	-1.387	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.563	-6.890	-1.002	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.269	-8.398	-2.709	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.554	-5.853	-1.915	1.00	0.00	C

ATOM	415	CE2	PHE A	32148.262	-7.364	-3.628	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.904	-6.091	-3.231	1.00	0.00	C
ATOM	417	H	PHE A	32145.790	-9.762	-1.991	1.00	0.00	H
ATOM	418	HA	PHE A	32146.625	-10.588	0.707	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.435	-8.947	0.496	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.486	-10.117	-0.819	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.289	-6.702	0.026	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.549	-9.392	-3.020	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.273	-4.858	-1.603	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.536	-7.553	-4.656	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.898	-5.283	-3.946	1.00	0.00	H
ATOM	426	N	TYR A	33145.726	-8.618	1.958	1.00	0.00	N
ATOM	427	CA	TYR A	33145.008	-7.584	2.692	1.00	0.00	C
ATOM	428	C	TYR A	33145.978	-6.652	3.409	1.00	0.00	C
ATOM	429	O	TYR A	33147.068	-7.062	3.809	1.00	0.00	O
ATOM	430	CB	TYR A	33144.051	-8.218	3.703	1.00	0.00	C
ATOM	431	CG	TYR A	33142.678	-8.509	3.140	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.103	-9.766	3.278	1.00	0.00	C
ATOM	433	CD2	TYR A	33141.958	-7.528	2.471	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.848	-10.037	2.766	1.00	0.00	C
ATOM	435	CE2	TYR A	33140.703	-7.790	1.956	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.153	-9.046	2.105	1.00	0.00	C
ATOM	437	OH	TYR A	33138.903	-9.311	1.594	1.00	0.00	O
ATOM	438	H	TYR A	33146.213	-9.306	2.456	1.00	0.00	H
ATOM	439	HA	TYR A	33144.434	-7.008	1.980	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.471	-9.150	4.050	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.931	-7.549	4.543	1.00	0.00	H

ATOM	442	HD1 TYR A	33142.649	-10.540	3.797	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.392	-6.546	2.355	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.417	-11.020	2.884	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.158	-7.014	1.438	1.00	0.00	H
ATOM	446	HH TYR A	33138.373	-9.756	2.258	1.00	0.00	H
ATOM	447	N GLY A	34145.577	-5.394	3.566	1.00	0.00	N
ATOM	448	CA GLY A	34146.424	-4.424	4.235	1.00	0.00	C
ATOM	449	C GLY A	34145.652	-3.209	4.709	1.00	0.00	C
ATOM	450	O GLY A	34144.432	-3.140	4.555	1.00	0.00	O
ATOM	451	H GLY A	34144.699	-5.123	3.226	1.00	0.00	H
ATOM	452	1HA GLY A	34146.889	-4.896	5.087	1.00	0.00	H
ATOM	453	2HA GLY A	34147.195	-4.103	3.550	1.00	0.00	H
ATOM	454	N VAL A	35146.364	-2.247	5.288	1.00	0.00	N
ATOM	455	CA VAL A	35145.739	-1.029	5.787	1.00	0.00	C
ATOM	456	C VAL A	35146.436	0.210	5.232	1.00	0.00	C
ATOM	457	O VAL A	35147.649	0.213	5.028	1.00	0.00	O
ATOM	458	CB VAL A	35145.761	-0.977	7.327	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.192	-0.974	7.845	1.00	0.00	C
ATOM	460	CG2 VAL A	35145.000	0.239	7.834	1.00	0.00	C
ATOM	461	H VAL A	35147.333	-2.361	5.381	1.00	0.00	H
ATOM	462	HA VAL A	35144.708	-1.026	5.461	1.00	0.00	H
ATOM	463	HB VAL A	35145.270	-1.863	7.703	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.184	-0.984	8.926	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.698	-0.086	7.498	1.00	0.00	H
ATOM	466	3HG1 VAL A	35147.708	-1.850	7.481	1.00	0.00	H
ATOM	467	1HG2 VAL A	35145.345	1.122	7.317	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.169	0.353	8.895	1.00	0.00	H

ATOM	469	3HG2	VAL A	35143.944	0.105	7.651	1.00	0.00	H
ATOM	470	N	ILE A	36145.659	1.262	4.991	1.00	0.00	N
ATOM	471	CA	ILE A	36146.203	2.507	4.461	1.00	0.00	C
ATOM	472	C	ILE A	36147.159	3.153	5.458	1.00	0.00	C
ATOM	473	O	ILE A	36146.910	3.152	6.663	1.00	0.00	O
ATOM	474	CB	ILE A	36145.084	3.507	4.112	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.038	2.845	3.214	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.667	4.740	3.436	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.906	3.770	2.818	1.00	0.00	C
ATOM	478	H	ILE A	36144.698	1.199	5.175	1.00	0.00	H
ATOM	479	HA	ILE A	36146.745	2.274	3.556	1.00	0.00	H
ATOM	480	HB	ILE A	36144.612	3.821	5.032	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.516	2.501	2.309	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.610	2.000	3.732	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.865	5.398	3.135	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.232	4.440	2.566	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.316	5.256	4.127	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.176	4.788	3.054	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.013	3.498	3.361	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.725	3.682	1.756	1.00	0.00	H
ATOM	489	N	ARG A	37148.255	3.705	4.945	1.00	0.00	N
ATOM	490	CA	ARG A	37149.250	4.355	5.790	1.00	0.00	C
ATOM	491	C	ARG A	37149.509	5.785	5.323	1.00	0.00	C
ATOM	492	O	ARG A	37149.278	6.741	6.061	1.00	0.00	O
ATOM	493	CB	ARG A	37150.555	3.558	5.781	1.00	0.00	C
ATOM	494	CG	ARG A	37150.360	2.068	6.015	1.00	0.00	C
ATOM	495	CD	ARG A	37149.771	1.793	7.390	1.00	0.00	C

ATOM	496	NE	ARG A	37150.664	2.224	8.463	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.430	2.003	9.755	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.334	1.359	10.137	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.293	2.429	10.667	1.00	0.00	N
ATOM	500	H	ARG A	37148.396	3.673	3.976	1.00	0.00	H
ATOM	501	HA	ARG A	37148.862	4.384	6.797	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.038	3.690	4.824	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.201	3.940	6.556	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.688	1.680	5.264	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.316	1.573	5.937	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.835	2.323	7.480	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.595	0.731	7.485	1.00	0.00	H
ATOM	508	HE	ARG A	37151.480	2.703	8.209	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.679	1.035	9.455	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.165	1.195	11.109	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.120	2.915	10.384	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.118	2.264	11.637	1.00	0.00	H
ATOM	513	N	TRPA	38149.992	5.923	4.091	1.00	0.00	N
ATOM	514	CA	TRPA	38150.282	7.236	3.528	1.00	0.00	C
ATOM	515	C	TRPA	38149.598	7.413	2.174	1.00	0.00	C
ATOM	516	O	TRPA	38149.676	6.542	1.309	1.00	0.00	O
ATOM	517	CB	TRPA	38151.795	7.432	3.381	1.00	0.00	C
ATOM	518	CG	TRPA	38152.166	8.645	2.578	1.00	0.00	C
ATOM	519	CD1	TRPA	38152.399	9.903	3.052	1.00	0.00	C
ATOM	520	CD2	TRPA	38152.339	8.712	1.157	1.00	0.00	C
ATOM	521	NE1	TRPA	38152.706	10.749	2.013	1.00	0.00	N
ATOM	522	CE2	TRPA	38152.675	10.041	0.840	1.00	0.00	C

ATOM	523	CE3 TRP A	38152.241	7.776	0.124	1.00	0.00	C
ATOM	524	CZ2 TRP A	38152.916	10.455	-0.468	1.00	0.00	C
ATOM	525	CZ3 TRP A	38152.480	8.189	-1.174	1.00	0.00	C
ATOM	526	CH2 TRP A	38152.814	9.518	-1.460	1.00	0.00	C
ATOM	527	H TRP A	38150.156	5.122	3.550	1.00	0.00	H
ATOM	528	HA TRP A	38149.897	7.980	4.210	1.00	0.00	H
ATOM	529	1HB TRP A	38152.234	7.537	4.362	1.00	0.00	H
ATOM	530	2HB TRP A	38152.217	6.567	2.893	1.00	0.00	H
ATOM	531	HD1 TRP A	38152.346	10.181	4.094	1.00	0.00	H
ATOM	532	HE1 TRP A	38152.914	11.703	2.097	1.00	0.00	H
ATOM	533	HE3 TRP A	38151.985	6.747	0.325	1.00	0.00	H
ATOM	534	HZ2 TRP A	38153.170	11.477	-0.706	1.00	0.00	H
ATOM	535	HZ3 TRP A	38152.409	7.479	-1.985	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.991	9.796	-2.489	1.00	0.00	H
ATOM	537	N ILE A	39148.938	8.552	2.000	1.00	0.00	N
ATOM	538	CA ILE A	39148.248	8.854	0.752	1.00	0.00	C
ATOM	539	C ILE A	39148.745	10.172	0.170	1.00	0.00	C
ATOM	540	O ILE A	39148.421	11.247	0.676	1.00	0.00	O
ATOM	541	CB ILE A	39146.722	8.938	0.956	1.00	0.00	C
ATOM	542	CG1 ILE A	39146.221	7.736	1.761	1.00	0.00	C
ATOM	543	CG2 ILE A	39146.013	9.017	-0.388	1.00	0.00	C
ATOM	544	CD1 ILE A	39145.393	8.123	2.967	1.00	0.00	C
ATOM	545	H ILE A	39148.919	9.208	2.727	1.00	0.00	H
ATOM	546	HA ILE A	39148.456	8.059	0.052	1.00	0.00	H
ATOM	547	HB ILE A	39146.505	9.844	1.502	1.00	0.00	H
ATOM	548	1HG1 ILE A	39145.610	7.113	1.126	1.00	0.00	H
ATOM	549	2HG1 ILE A	39147.069	7.164	2.110	1.00	0.00	H

ATOM	550	1HG2	ILE A	39145.966	10.047	-0.710	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.012	8.625	-0.290	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.559	8.436	-1.118	1.00	0.00	H
ATOM	553	1HD1	ILE A	39145.869	8.941	3.485	1.00	0.00	H
ATOM	554	2HD1	ILE A	39145.310	7.276	3.633	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.407	8.424	2.645	1.00	0.00	H
ATOM	556	N	GLY A	40149.540	10.085	-0.892	1.00	0.00	N
ATOM	557	CA	GLY A	40150.072	11.282	-1.515	1.00	0.00	C
ATOM	558	C	GLY A	40150.651	11.019	-2.891	1.00	0.00	C
ATOM	559	O	GLY A	40150.491	9.932	-3.444	1.00	0.00	O
ATOM	560	H	GLY A	40149.770	9.203	-1.251	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.282	12.010	-1.603	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.847	11.687	-0.883	1.00	0.00	H
ATOM	563	N	GLN A	41151.325	12.023	-3.443	1.00	0.00	N
ATOM	564	CA	GLN A	41151.933	11.908	-4.762	1.00	0.00	C
ATOM	565	C	GLN A	41153.415	12.277	-4.707	1.00	0.00	C
ATOM	566	O	GLN A	41153.765	13.423	-4.426	1.00	0.00	O
ATOM	567	CB	GLN A	41151.204	12.816	-5.752	1.00	0.00	C
ATOM	568	CG	GLN A	41149.691	12.670	-5.711	1.00	0.00	C
ATOM	569	CD	GLN A	41148.975	14.000	-5.846	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.930	14.793	-4.906	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.410	14.250	-7.021	1.00	0.00	N
ATOM	572	H	GLN A	41151.414	12.865	-2.949	1.00	0.00	H
ATOM	573	HA	GLN A	41151.835	10.884	-5.086	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.451	13.842	-5.527	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.540	12.584	-6.751	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.380	12.029	-6.521	1.00	0.00	H

ATOM	577	2HG	GLN A	41149.411	12.222	-4.769	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.486	13.573	-7.725	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.940	15.102	-7.137	1.00	0.00	H
ATOM	580	N	PRO A	42154.311	11.309	-4.972	1.00	0.00	N
ATOM	581	CA	PRO A	42155.758	11.547	-4.946	1.00	0.00	C
ATOM	582	C	PRO A	42156.179	12.657	-5.905	1.00	0.00	C
ATOM	583	O	PRO A	42155.455	12.987	-6.843	1.00	0.00	O
ATOM	584	CB	PRO A	42156.356	10.207	-5.388	1.00	0.00	C
ATOM	585	CG	PRO A	42155.296	9.203	-5.095	1.00	0.00	C
ATOM	586	CD	PRO A	42153.991	9.911	-5.315	1.00	0.00	C
ATOM	587	HA	PRO A	42156.101	11.786	-3.950	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.586	10.244	-6.442	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.254	10.008	-4.823	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.387	8.364	-5.771	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.375	8.871	-4.071	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.684	9.827	-6.348	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.231	9.517	-4.658	1.00	0.00	H
ATOM	594	N	PRO A	43157.363	13.249	-5.679	1.00	0.00	N
ATOM	595	CA	PRO A	43157.881	14.326	-6.528	1.00	0.00	C
ATOM	596	C	PRO A	43158.324	13.821	-7.895	1.00	0.00	C
ATOM	597	O	PRO A	43159.493	13.486	-8.095	1.00	0.00	O
ATOM	598	CB	PRO A	43159.080	14.853	-5.743	1.00	0.00	C
ATOM	599	CG	PRO A	43159.531	13.697	-4.917	1.00	0.00	C
ATOM	600	CD	PRO A	43158.291	12.915	-4.581	1.00	0.00	C
ATOM	601	HA	PRO A	43157.153	15.114	-6.654	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.849	15.170	-6.431	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.775	15.683	-5.125	1.00	0.00	H

ATOM	604	1HG	PRO A	43160.217	13.087	-5.485	1.00	0.00	H
ATOM	605	2HG	PRO A	43160.005	14.054	-4.015	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.506	11.856	-4.567	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.891	13.232	-3.630	1.00	0.00	H
ATOM	608	N	GLY A	44157.387	13.768	-8.834	1.00	0.00	N
ATOM	609	CA	GLY A	44157.705	13.303	-10.169	1.00	0.00	C
ATOM	610	C	GLY A	44156.484	12.809	-10.918	1.00	0.00	C
ATOM	611	O	GLY A	44156.229	13.226	-12.047	1.00	0.00	O
ATOM	612	H	GLY A	44156.473	14.047	-8.617	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.149	14.114	-10.725	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.419	12.496	-10.097	1.00	0.00	H
ATOM	615	N	LEU A	45155.725	11.918	-10.287	1.00	0.00	N
ATOM	616	CA	LEU A	45154.523	11.370	-10.904	1.00	0.00	C
ATOM	617	C	LEU A	45153.295	11.657	-10.050	1.00	0.00	C
ATOM	618	O	LEU A	45153.164	11.135	-8.943	1.00	0.00	O
ATOM	619	CB	LEU A	45154.673	9.861	-11.111	1.00	0.00	C
ATOM	620	CG	LEU A	45155.191	9.090	-9.896	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.827	7.615	-10.002	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.697	9.266	-9.756	1.00	0.00	C
ATOM	623	H	LEU A	45155.978	11.626	-9.384	1.00	0.00	H
ATOM	624	HA	LEU A	45154.398	11.845	-11.866	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.707	9.460	-11.383	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.357	9.697	-11.931	1.00	0.00	H
ATOM	627	HG	LEU A	45154.723	9.484	-9.004	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.218	7.455	-10.880	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.275	7.317	-9.123	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.729	7.025	-10.079	1.00	0.00	H

ATOM	631	1HD2	LEU A	45157.159	8.306	-9.582	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.906	9.922	-8.925	1.00	0.00	H
ATOM	633	3HD2	LEU A	45157.095	9.697	-10.664	1.00	0.00	H
ATOM	634	N	ASN A	46152.396	12.487	-10.566	1.00	0.00	N
ATOM	635	CA	ASN A	46151.182	12.831	-9.837	1.00	0.00	C
ATOM	636	C	ASN A	46150.210	11.656	-9.839	1.00	0.00	C
ATOM	637	O	ASN A	46149.608	11.335	-10.863	1.00	0.00	O
ATOM	638	CB	ASN A	46150.518	14.060	-10.460	1.00	0.00	C
ATOM	639	CG	ASN A	46149.756	14.885	-9.442	1.00	0.00	C
ATOM	640	OD1	ASN A	46148.535	15.019	-9.523	1.00	0.00	O
ATOM	641	ND2	ASN A	46150.475	15.444	-8.476	1.00	0.00	N
ATOM	642	H	ASN A	46152.550	12.874	-11.453	1.00	0.00	H
ATOM	643	HA	ASN A	46151.457	13.056	-8.818	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.277	14.685	-10.906	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.827	13.738	-11.227	1.00	0.00	H
ATOM	646	1HD2	ASN A	46151.443	15.294	-8.474	1.00	0.00	H
ATOM	647	2HD2	ASN A	46150.008	15.982	-7.803	1.00	0.00	H
ATOM	648	N	GLU A	47150.065	11.019	-8.683	1.00	0.00	N
ATOM	649	CA	GLU A	47149.170	9.877	-8.543	1.00	0.00	C
ATOM	650	C	GLU A	47148.942	9.545	-7.073	1.00	0.00	C
ATOM	651	O	GLU A	47149.887	9.254	-6.341	1.00	0.00	O
ATOM	652	CB	GLU A	47149.741	8.657	-9.270	1.00	0.00	C
ATOM	653	CG	GLU A	47151.249	8.512	-9.129	1.00	0.00	C
ATOM	654	CD	GLU A	47151.835	7.534	-10.128	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.125	6.385	-9.733	1.00	0.00	O
ATOM	656	OE2	GLU A	47152.005	7.916	-11.304	1.00	0.00	O
ATOM	657	H	GLU A	47150.576	11.322	-7.903	1.00	0.00	H

ATOM	658	HA	GLU A	47148.224	10.141	-8.991	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.278	7.766	-8.872	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.506	8.736	-10.320	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.706	9.477	-9.283	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.475	8.164	-8.132	1.00	0.00	H
ATOM	663	N	VAL A	48147.686	9.586	-6.647	1.00	0.00	N
ATOM	664	CA	VAL A	48147.346	9.281	-5.263	1.00	0.00	C
ATOM	665	C	VAL A	48147.678	7.831	-4.933	1.00	0.00	C
ATOM	666	O	VAL A	48146.921	6.919	-5.267	1.00	0.00	O
ATOM	667	CB	VAL A	48145.854	9.534	-4.978	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.566	9.417	-3.490	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.432	10.897	-5.505	1.00	0.00	C
ATOM	670	H	VAL A	48146.971	9.820	-7.275	1.00	0.00	H
ATOM	671	HA	VAL A	48147.931	9.929	-4.625	1.00	0.00	H
ATOM	672	HB	VAL A	48145.277	8.779	-5.493	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.569	9.780	-3.286	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.283	10.006	-2.937	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.640	8.383	-3.189	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.318	10.849	-6.578	1.00	0.00	H
ATOM	677	2HG2	VAL A	48146.187	11.628	-5.256	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.492	11.182	-5.056	1.00	0.00	H
ATOM	679	N	LEU A	49148.816	7.624	-4.281	1.00	0.00	N
ATOM	680	CA	LEU A	49149.250	6.283	-3.909	1.00	0.00	C
ATOM	681	C	LEU A	49149.076	6.055	-2.413	1.00	0.00	C
ATOM	682	O	LEU A	49149.743	6.692	-1.597	1.00	0.00	O
ATOM	683	CB	LEU A	49150.712	6.068	-4.304	1.00	0.00	C
ATOM	684	CG	LEU A	49150.984	6.063	-5.809	1.00	0.00	C

ATOM	685	CD1	LEU A	49152.453	6.335	-6.087	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.560	4.737	-6.421	1.00	0.00	C
ATOM	687	H	LEU A	49149.378	8.391	-4.041	1.00	0.00	H
ATOM	688	HA	LEU A	49148.634	5.576	-4.443	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.303	6.853	-3.854	1.00	0.00	H
ATOM	690	2HB	LEU A	49151.036	5.121	-3.899	1.00	0.00	H
ATOM	691	HG	LEU A	49150.405	6.847	-6.275	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.547	6.928	-6.984	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.975	5.398	-6.218	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.884	6.872	-5.254	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.544	4.813	-6.778	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.622	3.959	-5.675	1.00	0.00	H
ATOM	697	3HD2	LEU A	49151.214	4.496	-7.247	1.00	0.00	H
ATOM	698	N	ALAA	50148.177	5.145	-2.059	1.00	0.00	N
ATOM	699	CA	ALAA	50147.920	4.838	-0.661	1.00	0.00	C
ATOM	700	C	ALAA	50148.793	3.683	-0.183	1.00	0.00	C
ATOM	701	O	ALAA	50148.658	2.554	-0.654	1.00	0.00	O
ATOM	702	CB	ALAA	50146.448	4.511	-0.454	1.00	0.00	C
ATOM	703	H	ALAA	50147.675	4.671	-2.755	1.00	0.00	H
ATOM	704	HA	ALAA	50148.154	5.719	-0.082	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.320	3.440	-0.414	1.00	0.00	H
ATOM	706	2HB	ALAA	50145.871	4.912	-1.273	1.00	0.00	H
ATOM	707	3HB	ALAA	50146.109	4.949	0.473	1.00	0.00	H
ATOM	708	N	GLY A	51149.690	3.974	0.753	1.00	0.00	N
ATOM	709	CA	GLY A	51150.574	2.950	1.277	1.00	0.00	C
ATOM	710	C	GLY A	51149.829	1.892	2.067	1.00	0.00	C
ATOM	711	O	GLY A	51149.265	2.178	3.121	1.00	0.00	O

ATOM	712	H	GLY A	51149.754	4.892	1.090	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.085	2.474	0.453	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.306	3.416	1.921	1.00	0.00	H
ATOM	715	N	LEU A	52149.829	0.665	1.555	1.00	0.00	N
ATOM	716	CA	LEU A	52149.149	-0.440	2.220	1.00	0.00	C
ATOM	717	C	LEU A	52150.150	-1.351	2.923	1.00	0.00	C
ATOM	718	O	LEU A	52151.154	-1.756	2.337	1.00	0.00	O
ATOM	719	CB	LEU A	52148.330	-1.244	1.209	1.00	0.00	C
ATOM	720	CG	LEU A	52147.084	-0.536	0.673	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.371	-1.410	-0.345	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.148	-0.170	1.815	1.00	0.00	C
ATOM	723	H	LEU A	52150.298	0.499	0.710	1.00	0.00	H
ATOM	724	HA	LEU A	52148.482	-0.021	2.958	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.969	-1.488	0.373	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.018	-2.163	1.681	1.00	0.00	H
ATOM	727	HG	LEU A	52147.383	0.376	0.178	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.328	-1.134	-0.389	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.456	-2.447	-0.053	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.820	-1.272	-1.317	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.625	0.562	2.451	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.920	-1.054	2.391	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.235	0.244	1.412	1.00	0.00	H
ATOM	734	N	GLU A	53149.869	-1.669	4.182	1.00	0.00	N
ATOM	735	CA	GLU A	53150.744	-2.533	4.965	1.00	0.00	C
ATOM	736	C	GLU A	53150.203	-3.959	5.007	1.00	0.00	C
ATOM	737	O	GLU A	53149.225	-4.242	5.699	1.00	0.00	O
ATOM	738	CB	GLU A	53150.892	-1.989	6.388	1.00	0.00	C

ATOM	739	CG	GLU A	53151.852	-2.792	7.250	1.00	0.00	C
ATOM	740	CD	GLU A	53151.466	-2.780	8.716	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.269	-2.289	9.538	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.360	-3.260	9.044	1.00	0.00	O
ATOM	743	H	GLU A	53149.053	-1.315	4.593	1.00	0.00	H
ATOM	744	HA	GLU A	53151.713	-2.542	4.490	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.255	-0.972	6.335	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.924	-1.992	6.865	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.857	-3.815	6.904	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.843	-2.373	7.150	1.00	0.00	H
ATOM	749	N	LEU A	54150.846	-4.852	4.262	1.00	0.00	N
ATOM	750	CA	LEU A	54150.430	-6.249	4.214	1.00	0.00	C
ATOM	751	C	LEU A	54150.631	-6.923	5.567	1.00	0.00	C
ATOM	752	O	LEU A	54151.705	-6.836	6.162	1.00	0.00	O
ATOM	753	CB	LEU A	54151.213	-6.998	3.135	1.00	0.00	C
ATOM	754	CG	LEU A	54151.220	-6.331	1.759	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.393	-6.831	0.929	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.906	-6.587	1.037	1.00	0.00	C
ATOM	757	H	LEU A	54151.619	-4.564	3.733	1.00	0.00	H
ATOM	758	HA	LEU A	54149.379	-6.272	3.966	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.236	-7.101	3.468	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.786	-7.985	3.030	1.00	0.00	H
ATOM	761	HG	LEU A	54151.331	-5.264	1.885	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.306	-6.728	1.497	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.465	-6.250	0.022	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.240	-7.871	0.680	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.462	-7.499	1.409	1.00	0.00	H

ATOM	766	2HD2	LEU A	54150.090	-6.683	-0.023	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.232	-5.761	1.211	1.00	0.00	H
ATOM	768	N	GLU A	55149.590	-7.595	6.048	1.00	0.00	N
ATOM	769	CA	GLU A	55149.653	-8.284	7.331	1.00	0.00	C
ATOM	770	C	GLU A	55150.613	-9.468	7.267	1.00	0.00	C
ATOM	771	O	GLU A	55151.246	-9.820	8.263	1.00	0.00	O
ATOM	772	CB	GLU A	55148.261	-8.765	7.744	1.00	0.00	C
ATOM	773	CG	GLU A	55147.281	-7.634	8.009	1.00	0.00	C
ATOM	774	CD	GLU A	55146.305	-7.957	9.124	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.186	-7.403	9.112	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.660	-8.765	10.008	1.00	0.00	O
ATOM	777	H	GLU A	55148.760	-7.628	5.528	1.00	0.00	H
ATOM	778	HA	GLU A	55150.014	-7.582	8.067	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.858	-9.384	6.957	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.349	-9.354	8.644	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.836	-6.749	8.282	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.721	-7.441	7.104	1.00	0.00	H
ATOM	783	N	ASP A	56150.717	-10.077	6.091	1.00	0.00	N
ATOM	784	CA	ASP A	56151.601	-11.220	5.898	1.00	0.00	C
ATOM	785	C	ASP A	56152.965	-10.773	5.385	1.00	0.00	C
ATOM	786	O	ASP A	56153.065	-10.126	4.342	1.00	0.00	O
ATOM	787	CB	ASP A	56150.975	-12.215	4.918	1.00	0.00	C
ATOM	788	CG	ASP A	56150.131	-13.263	5.618	1.00	0.00	C
ATOM	789	OD1	ASP A	56150.329	-14.464	5.342	1.00	0.00	O
ATOM	790	OD2	ASP A	56149.275	-12.881	6.443	1.00	0.00	O
ATOM	791	H	ASP A	56150.187	-9.749	5.335	1.00	0.00	H
ATOM	792	HA	ASP A	56151.730	-11.705	6.854	1.00	0.00	H

ATOM	793	1HB	ASP A	56150.346 -11.679	4.223	1.00	0.00 H
ATOM	794	2HB	ASP A	56151.761 -12.717	4.373	1.00	0.00 H
ATOM	795	N	GLU A	57154.013 -11.122	6.123	1.00	0.00 N
ATOM	796	CA	GLU A	57155.372 -10.756	5.742	1.00	0.00 C
ATOM	797	C	GLU A	57155.819 -11.534	4.509	1.00	0.00 C
ATOM	798	O	GLU A	57156.361 -12.633	4.617	1.00	0.00 O
ATOM	799	CB	GLU A	57156.337 -11.018	6.901	1.00	0.00 C
ATOM	800	CG	GLU A	57156.180 -10.041	8.055	1.00	0.00 C
ATOM	801	CD	GLU A	57157.188 -10.282	9.162	1.00	0.00 C
ATOM	802	OE1	GLU A	57158.344 -9.829	9.022	1.00	0.00 O
ATOM	803	OE2	GLU A	57156.820 -10.922	10.170	1.00	0.00 O
ATOM	804	H	GLU A	57153.869 -11.638	6.944	1.00	0.00 H
ATOM	805	HA	GLU A	57155.379 -9.702	5.511	1.00	0.00 H
ATOM	806	1HB	GLU A	57156.167 -12.016	7.277	1.00	0.00 H
ATOM	807	2HB	GLU A	57157.350 -10.949	6.533	1.00	0.00 H
ATOM	808	1HG	GLU A	57156.314 -9.037	7.680	1.00	0.00 H
ATOM	809	2HG	GLU A	57155.186 -10.142	8.464	1.00	0.00 H
ATOM	810	N	CYS A	58155.588 -10.954	3.334	1.00	0.00 N
ATOM	811	CA	CYS A	58155.966 -11.592	2.079	1.00	0.00 C
ATOM	812	C	CYS A	58157.251 -10.984	1.524	1.00	0.00 C
ATOM	813	O	CYS A	58157.464 -9.774	1.610	1.00	0.00 O
ATOM	814	CB	CYS A	58154.840 -11.456	1.054	1.00	0.00 C
ATOM	815	SG	CYS A	58153.495 -12.644	1.273	1.00	0.00 S
ATOM	816	H	CYS A	58155.153 -10.076	3.312	1.00	0.00 H
ATOM	817	HA	CYS A	58156.136 -12.640	2.278	1.00	0.00 H
ATOM	818	1HB	CYS A	58154.417 -10.465	1.125	1.00	0.00 H
ATOM	819	2HB	CYS A	58155.247 -11.598	0.063	1.00	0.00 H

ATOM	820	HG	CYS A	58153.569	-13.017	2.154	1.00	0.00	H
ATOM	821	N	ALA A	59158.103	-11.830	0.956	1.00	0.00	N
ATOM	822	CA	ALA A	59159.367	-11.377	0.388	1.00	0.00	C
ATOM	823	C	ALA A	59159.133	-10.493	-0.833	1.00	0.00	C
ATOM	824	O	ALA A	59158.338	-10.828	-1.711	1.00	0.00	O
ATOM	825	CB	ALA A	59160.237	-12.568	0.019	1.00	0.00	C
ATOM	826	H	ALA A	59157.877	-12.784	0.918	1.00	0.00	H
ATOM	827	HA	ALA A	59159.884	-10.802	1.142	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.836	-12.324	-0.846	1.00	0.00	H
ATOM	829	2HB	ALA A	59159.609	-13.417	-0.206	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.886	-12.811	0.848	1.00	0.00	H
ATOM	831	N	GLY A	60159.830	-9.362	-0.881	1.00	0.00	N
ATOM	832	CA	GLY A	60159.684	-8.448	-1.998	1.00	0.00	C
ATOM	833	C	GLY A	60158.880	-7.214	-1.637	1.00	0.00	C
ATOM	834	O	GLY A	60158.226	-6.619	-2.492	1.00	0.00	O
ATOM	835	H	GLY A	60160.449	-9.148	-0.152	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.665	-8.141	-2.328	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.188	-8.963	-2.807	1.00	0.00	H
ATOM	838	N	CYS A	61158.929	-6.830	-0.365	1.00	0.00	N
ATOM	839	CA	CYS A	61158.200	-5.659	0.108	1.00	0.00	C
ATOM	840	C	CYS A	61159.087	-4.786	0.991	1.00	0.00	C
ATOM	841	O	CYS A	61159.907	-5.293	1.757	1.00	0.00	O
ATOM	842	CB	CYS A	61156.954	-6.089	0.884	1.00	0.00	C
ATOM	843	SG	CYS A	61155.907	-7.271	0.002	1.00	0.00	S
ATOM	844	H	CYS A	61159.469	-7.346	0.270	1.00	0.00	H
ATOM	845	HA	CYS A	61157.897	-5.087	-0.754	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.257	-6.550	1.812	1.00	0.00	H

ATOM	847	2HB	CYS A	61156.356	-5.216	1.100	1.00	0.00	H
ATOM	848	HG	CYS A	61156.179	-7.278	-0.918	1.00	0.00	H
ATOM	849	N	THR A	62158.917	-3.474	0.877	1.00	0.00	N
ATOM	850	CA	THR A	62159.702	-2.530	1.664	1.00	0.00	C
ATOM	851	C	THR A	62159.143	-2.404	3.078	1.00	0.00	C
ATOM	852	O	THR A	62158.196	-3.099	3.446	1.00	0.00	O
ATOM	853	CB	THR A	62159.721	-1.159	0.986	1.00	0.00	C
ATOM	854	OG1	THR A	62158.458	-0.526	1.100	1.00	0.00	O
ATOM	855	CG2	THR A	62160.070	-1.223	-0.485	1.00	0.00	C
ATOM	856	H	THR A	62158.248	-3.130	0.248	1.00	0.00	H
ATOM	857	HA	THR A	62160.712	-2.907	1.722	1.00	0.00	H
ATOM	858	HB	THR A	62160.458	-0.537	1.475	1.00	0.00	H
ATOM	859	HG1	THR A	62157.777	-1.107	0.755	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.178	-1.417	-1.059	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.784	-2.017	-0.651	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.502	-0.283	-0.795	1.00	0.00	H
ATOM	863	N	ASP A	63159.735	-1.511	3.865	1.00	0.00	N
ATOM	864	CA	ASP A	63159.296	-1.294	5.239	1.00	0.00	C
ATOM	865	C	ASP A	63158.638	0.075	5.389	1.00	0.00	C
ATOM	866	O	ASP A	63158.710	0.696	6.449	1.00	0.00	O
ATOM	867	CB	ASP A	63160.481	-1.410	6.200	1.00	0.00	C
ATOM	868	CG	ASP A	63161.653	-0.546	5.781	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.891	0.491	6.435	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.335	-0.906	4.798	1.00	0.00	O
ATOM	871	H	ASP A	63160.485	-0.987	3.514	1.00	0.00	H
ATOM	872	HA	ASP A	63158.572	-2.056	5.480	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.167	-1.103	7.187	1.00	0.00	H

ATOM	874	2HB	ASP A	63160.808	-2.438	6.234	1.00	0.00	H
ATOM	875	N	GLY A	64157.997	0.538	4.320	1.00	0.00	N
ATOM	876	CA	GLY A	64157.336	1.829	4.354	1.00	0.00	C
ATOM	877	C	GLY A	64158.131	2.907	3.644	1.00	0.00	C
ATOM	878	O	GLY A	64158.365	3.981	4.198	1.00	0.00	O
ATOM	879	H	GLY A	64157.973	-0.002	3.503	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.369	1.738	3.880	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.193	2.121	5.384	1.00	0.00	H
ATOM	882	N	THR A	65158.548	2.619	2.416	1.00	0.00	N
ATOM	883	CA	THR A	65159.322	3.572	1.629	1.00	0.00	C
ATOM	884	C	THR A	65158.949	3.489	0.152	1.00	0.00	C
ATOM	885	O	THR A	65158.860	2.401	-0.416	1.00	0.00	O
ATOM	886	CB	THR A	65160.819	3.313	1.803	1.00	0.00	C
ATOM	887	OG1	THR A	65161.067	1.935	2.023	1.00	0.00	O
ATOM	888	CG2	THR A	65161.430	4.078	2.957	1.00	0.00	C
ATOM	889	H	THR A	65158.330	1.745	2.028	1.00	0.00	H
ATOM	890	HA	THR A	65159.094	4.564	1.990	1.00	0.00	H
ATOM	891	HB	THR A	65161.333	3.610	0.900	1.00	0.00	H
ATOM	892	HG1	THR A	65160.761	1.430	1.267	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.652	5.087	2.641	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.341	3.590	3.271	1.00	0.00	H
ATOM	895	3HG2	THR A	65160.732	4.104	3.781	1.00	0.00	H
ATOM	896	N	PHE A	66158.732	4.647	-0.465	1.00	0.00	N
ATOM	897	CA	PHE A	66158.369	4.705	-1.876	1.00	0.00	C
ATOM	898	C	PHE A	66159.321	5.616	-2.644	1.00	0.00	C
ATOM	899	O	PHE A	66159.363	6.824	-2.414	1.00	0.00	O
ATOM	900	CB	PHE A	66156.931	5.204	-2.033	1.00	0.00	C

ATOM	901	CG	PHE A	66156.344	4.927	-3.388	1.00	0.00	C
ATOM	902	CD1	PHE A	66156.277	5.925	-4.346	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.859	3.667	-3.702	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.739	5.673	-5.594	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.318	3.410	-4.948	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.258	4.413	-5.895	1.00	0.00	C
ATOM	907	H	PHE A	66158.819	5.482	0.042	1.00	0.00	H
ATOM	908	HA	PHE A	66158.440	3.706	-2.279	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.307	4.722	-1.296	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.909	6.273	-1.872	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.653	6.910	-4.112	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.905	2.882	-2.963	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.692	6.460	-6.332	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.943	2.424	-5.181	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.836	4.213	-6.868	1.00	0.00	H
ATOM	916	N	ARG A	67160.086	5.027	-3.557	1.00	0.00	N
ATOM	917	CA	ARG A	67161.038	5.785	-4.360	1.00	0.00	C
ATOM	918	C	ARG A	67162.073	6.468	-3.472	1.00	0.00	C
ATOM	919	O	ARG A	67162.508	7.586	-3.755	1.00	0.00	O
ATOM	920	CB	ARG A	67160.307	6.828	-5.207	1.00	0.00	C
ATOM	921	CG	ARG A	67159.321	6.229	-6.194	1.00	0.00	C
ATOM	922	CD	ARG A	67159.188	7.088	-7.441	1.00	0.00	C
ATOM	923	NE	ARG A	67159.003	8.500	-7.115	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.198	9.493	-7.980	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.585	9.233	-9.223	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.008	10.749	-7.600	1.00	0.00	N
ATOM	927	H	ARG A	67160.007	4.060	-3.696	1.00	0.00	H

ATOM	928	HA	ARG A	67161.545	5.093	-5.016	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.767	7.494	-4.550	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.037	7.400	-5.762	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.664	5.246	-6.481	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.354	6.149	-5.719	1.00	0.00	H
ATOM	933	1HD	ARG A	67160.085	6.981	-8.034	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.338	6.744	-8.011	1.00	0.00	H
ATOM	935	HE	ARG A	67158.717	8.720	-6.203	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.730	8.288	-9.515	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.730	9.984	-9.868	1.00	0.00	H
ATOM	938	1HH2	ARG A	67158.716	10.950	-6.665	1.00	0.00	H
ATOM	939	2HH2	ARG A	67159.155	11.495	-8.250	1.00	0.00	H
ATOM	940	N	GLY A	68162.462	5.792	-2.397	1.00	0.00	N
ATOM	941	CA	GLY A	68163.442	6.350	-1.484	1.00	0.00	C
ATOM	942	C	GLY A	68162.894	7.521	-0.691	1.00	0.00	C
ATOM	943	O	GLY A	68163.642	8.412	-0.291	1.00	0.00	O
ATOM	944	H	GLY A	68162.080	4.907	-2.222	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.757	5.579	-0.796	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.298	6.684	-2.052	1.00	0.00	H
ATOM	947	N	THR A	69161.585	7.516	-0.463	1.00	0.00	N
ATOM	948	CA	THR A	69160.934	8.585	0.287	1.00	0.00	C
ATOM	949	C	THR A	69160.118	8.020	1.443	1.00	0.00	C
ATOM	950	O	THR A	69158.973	7.605	1.263	1.00	0.00	O
ATOM	951	CB	THR A	69160.034	9.408	-0.636	1.00	0.00	C
ATOM	952	OG1	THR A	69160.665	9.633	-1.884	1.00	0.00	O
ATOM	953	CG2	THR A	69159.659	10.756	-0.060	1.00	0.00	C
ATOM	954	H	THR A	69161.041	6.777	-0.808	1.00	0.00	H

ATOM	955	HA	THR A	69161.706	9.227	0.686	1.00	0.00	H
ATOM	956	HB	THR A	69159.119	8.859	-0.812	1.00	0.00	H
ATOM	957	HG1	THR A	69161.414	10.222	-1.762	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.279	10.627	0.943	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.900	11.214	-0.677	1.00	0.00	H
ATOM	960	3HG2	THR A	69160.532	11.391	-0.034	1.00	0.00	H
ATOM	961	N	ARG A	70160.714	8.007	2.631	1.00	0.00	N
ATOM	962	CA	ARG A	70160.040	7.492	3.818	1.00	0.00	C
ATOM	963	C	ARG A	70158.775	8.291	4.114	1.00	0.00	C
ATOM	964	O	ARG A	70158.830	9.502	4.327	1.00	0.00	O
ATOM	965	CB	ARG A	70160.980	7.538	5.024	1.00	0.00	C
ATOM	966	CG	ARG A	70160.363	6.981	6.296	1.00	0.00	C
ATOM	967	CD	ARG A	70160.901	7.687	7.531	1.00	0.00	C
ATOM	968	NE	ARG A	70162.324	7.425	7.735	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.020	7.882	8.774	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.430	8.624	9.703	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.310	7.596	8.884	1.00	0.00	N
ATOM	972	H	ARG A	70161.627	8.350	2.711	1.00	0.00	H
ATOM	973	HA	ARG A	70159.766	6.466	3.625	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.866	6.964	4.797	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.263	8.564	5.205	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.293	7.115	6.255	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.594	5.928	6.365	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.754	8.750	7.414	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.353	7.341	8.395	1.00	0.00	H
ATOM	980	HE	ARG A	70162.785	6.879	7.064	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.457	8.842	9.626	1.00	0.00	H

ATOM	982	2HH1	ARG A	70162.958	8.964	10.481	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.760	7.038	8.187	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.833	7.940	9.665	1.00	0.00	H
ATOM	985	N	TYR A	71157.637	7.605	4.126	1.00	0.00	N
ATOM	986	CA	TYR A	71156.359	8.251	4.398	1.00	0.00	C
ATOM	987	C	TYR A	71155.842	7.876	5.783	1.00	0.00	C
ATOM	988	O	TYR A	71155.337	8.725	6.519	1.00	0.00	O
ATOM	989	CB	TYR A	71155.330	7.859	3.335	1.00	0.00	C
ATOM	990	CG	TYR A	71155.555	8.528	1.998	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.502	7.798	0.817	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.820	9.889	1.917	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.707	8.406	-0.407	1.00	0.00	C
ATOM	994	CE2	TYR A	71156.025	10.504	0.696	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.968	9.759	-0.463	1.00	0.00	C
ATOM	996	OH	TYR A	71156.173	10.368	-1.679	1.00	0.00	O
ATOM	997	H	TYR A	71157.658	6.642	3.950	1.00	0.00	H
ATOM	998	HA	TYR A	71156.512	9.319	4.360	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.370	6.791	3.182	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.344	8.131	3.682	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.297	6.739	0.863	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.865	10.470	2.826	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.662	7.821	-1.314	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.231	11.564	0.654	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.355	10.771	-1.977	1.00	0.00	H
ATOM	1006	N	PHE A	72155.971	6.601	6.133	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.517	6.114	7.430	1.00	0.00	C
ATOM	1008	C	PHE A	72156.412	4.983	7.931	1.00	0.00	C

ATOM	1009	O	PHE A	72157.202	4.421	7.171	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.069	5.631	7.339	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.849	4.590	6.279	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.914	3.241	6.590	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.576	4.960	4.972	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.712	2.281	5.617	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.373	4.004	3.995	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.440	2.663	4.318	1.00	0.00	C
ATOM	1017	H	PHE A	72156.382	5.972	5.503	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.572	6.935	8.129	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.779	5.206	8.288	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.430	6.473	7.117	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.126	2.941	7.607	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.523	6.008	4.718	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.765	1.233	5.872	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.161	4.306	2.980	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.281	1.914	3.555	1.00	0.00	H
ATOM	1026	N	THR A	73156.281	4.657	9.212	1.00	0.00	N
ATOM	1027	CA	THR A	73157.077	3.592	9.813	1.00	0.00	C
ATOM	1028	C	THR A	73156.235	2.340	10.030	1.00	0.00	C
ATOM	1029	O	THR A	73155.254	2.360	10.773	1.00	0.00	O
ATOM	1030	CB	THR A	73157.667	4.061	11.145	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.251	2.975	11.843	1.00	0.00	O
ATOM	1032	CG2	THR A	73156.646	4.699	12.060	1.00	0.00	C
ATOM	1033	H	THR A	73155.634	5.141	9.765	1.00	0.00	H
ATOM	1034	HA	THR A	73157.884	3.358	9.135	1.00	0.00	H
ATOM	1035	HB	THR A	73158.438	4.792	10.948	1.00	0.00	H

ATOM	1036	HG1 THR A	73158.876	2.524	11.270	1.00	0.00	H
ATOM	1037	1HG2 THR A	73156.334	5.647	11.646	1.00	0.00	H
ATOM	1038	2HG2 THR A	73157.086	4.860	13.034	1.00	0.00	H
ATOM	1039	3HG2 THR A	73155.790	4.048	12.155	1.00	0.00	H
ATOM	1040	N CYS A	74156.626	1.250	9.377	1.00	0.00	N
ATOM	1041	CA CYS A	74155.907	-0.012	9.498	1.00	0.00	C
ATOM	1042	C CYS A	74156.878	-1.179	9.653	1.00	0.00	C
ATOM	1043	O CYS A	74158.092	-0.983	9.722	1.00	0.00	O
ATOM	1044	CB CYS A	74155.015	-0.236	8.275	1.00	0.00	C
ATOM	1045	SG CYS A	74153.346	0.437	8.448	1.00	0.00	S
ATOM	1046	H CYS A	74157.416	1.297	8.799	1.00	0.00	H
ATOM	1047	HA CYS A	74155.286	0.043	10.380	1.00	0.00	H
ATOM	1048	1HB CYS A	74155.470	0.235	7.416	1.00	0.00	H
ATOM	1049	2HB CYS A	74154.926	-1.296	8.093	1.00	0.00	H
ATOM	1050	HG CYS A	74152.728	-0.208	8.096	1.00	0.00	H
ATOM	1051	N ALA A	75156.336	-2.390	9.706	1.00	0.00	N
ATOM	1052	CA ALA A	75157.155	-3.588	9.852	1.00	0.00	C
ATOM	1053	C ALA A	75157.953	-3.865	8.582	1.00	0.00	C
ATOM	1054	O ALA A	75157.700	-3.270	7.536	1.00	0.00	O
ATOM	1055	CB ALA A	75156.282	-4.784	10.200	1.00	0.00	C
ATOM	1056	H ALA A	75155.362	-2.482	9.645	1.00	0.00	H
ATOM	1057	HA ALA A	75157.842	-3.423	10.669	1.00	0.00	H
ATOM	1058	1HB ALA A	75156.077	-5.353	9.306	1.00	0.00	H
ATOM	1059	2HB ALA A	75155.353	-4.438	10.629	1.00	0.00	H
ATOM	1060	3HB ALA A	75156.797	-5.409	10.915	1.00	0.00	H
ATOM	1061	N LEU A	76158.917	-4.774	8.683	1.00	0.00	N
ATOM	1062	CA LEU A	76159.752	-5.131	7.542	1.00	0.00	C

ATOM	1063	C	LEU A	76159.032	-6.118	6.628	1.00	0.00	C
ATOM	1064	O	LEU A	76158.388	-7.056	7.097	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.074	-5.735	8.021	1.00	0.00	C
ATOM	1066	CG	LEU A	76161.972	-4.781	8.812	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.755	-5.542	9.871	1.00	0.00	C
ATOM	1068	CD2	LEU A	76162.916	-4.041	7.877	1.00	0.00	C
ATOM	1069	H	LEU A	76159.070	-5.215	9.545	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.958	-4.229	6.987	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.851	-6.588	8.645	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.624	-6.077	7.156	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.355	-4.050	9.315	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.565	-6.082	9.401	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.100	-6.238	10.373	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.159	-4.844	10.590	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.625	-4.738	7.455	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.445	-3.278	8.428	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.348	-3.581	7.081	1.00	0.00	H
ATOM	1080	N	LYS A	77159.145	-5.898	5.323	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.504	-6.766	4.342	1.00	0.00	C
ATOM	1082	C	LYS A	77156.987	-6.744	4.503	1.00	0.00	C
ATOM	1083	O	LYS A	77156.324	-7.772	4.375	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.023	-8.199	4.483	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.538	-8.303	4.461	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.091	-8.095	3.059	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.387	-7.301	3.083	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.485	-6.363	1.932	1.00	0.00	N
ATOM	1089	H	LYS A	77159.672	-5.132	5.010	1.00	0.00	H

ATOM	1090	HA	LYS A	77158.755	-6.398	3.358	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.670	-8.607	5.419	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.631	-8.794	3.670	1.00	0.00	H
ATOM	1093	1HG	LYS A	77160.951	-7.548	5.114	1.00	0.00	H
ATOM	1094	2HG	LYS A	77160.829	-9.282	4.810	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.279	-9.058	2.610	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.360	-7.557	2.471	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.431	-6.735	4.001	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.217	-7.991	3.047	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.550	-5.963	1.714	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.839	-6.863	1.092	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.139	-5.586	2.158	1.00	0.00	H
ATOM	1102	N	LYS A	78156.445	-5.564	4.785	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.007	-5.407	4.964	1.00	0.00	C
ATOM	1104	C	LYS A	78154.546	-4.032	4.488	1.00	0.00	C
ATOM	1105	O	LYS A	78153.689	-3.405	5.110	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.630	-5.604	6.433	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.068	-6.946	6.999	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.557	-7.146	8.417	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.324	-8.035	8.449	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.234	-7.445	9.274	1.00	0.00	N
ATOM	1111	H	LYS A	78157.026	-4.779	4.874	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.515	-6.163	4.370	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.093	-4.824	7.019	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.558	-5.529	6.531	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.677	-7.734	6.372	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.147	-6.989	7.004	1.00	0.00	H

ATOM	1117	1HD	LYS A	78155.335	-7.607	9.007	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.306	-6.183	8.838	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.965	-8.170	7.439	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.598	-8.994	8.862	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.631	-7.002	10.127	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78151.563	-8.185	9.563	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78151.722	-6.723	8.727	1.00	0.00	H
ATOM	1124	N	ALA A	79155.121	-3.572	3.382	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.769	-2.273	2.822	1.00	0.00	C
ATOM	1126	C	ALA A	79154.594	-2.354	1.310	1.00	0.00	C
ATOM	1127	O	ALA A	79155.564	-2.522	0.571	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.829	-1.241	3.178	1.00	0.00	C
ATOM	1129	H	ALA A	79155.797	-4.119	2.931	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.835	-1.961	3.266	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.353	-0.297	3.400	1.00	0.00	H
ATOM	1132	2HB	ALA A	79156.504	-1.116	2.344	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.383	-1.576	4.042	1.00	0.00	H
ATOM	1134	N	LEU A	80153.350	-2.236	0.856	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.048	-2.297	-0.569	1.00	0.00	C
ATOM	1136	C	LEU A	80152.227	-1.087	-1.004	1.00	0.00	C
ATOM	1137	O	LEU A	80151.035	-0.995	-0.709	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.292	-3.586	-0.896	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.856	-3.730	-2.355	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.048	-4.071	-3.236	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.775	-4.791	-2.485	1.00	0.00	C
ATOM	1142	H	LEU A	80152.619	-2.105	1.494	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.984	-2.293	-1.107	1.00	0.00	H

ATOM	1144	1HB	LEU A	80152.927	-4.424	-0.645	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.409	-3.627	-0.275	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.448	-2.790	-2.696	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.869	-3.409	-3.002	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80152.775	-3.951	-4.273	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.348	-5.093	-3.058	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.078	-4.699	-1.665	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.227	-5.772	-2.463	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.250	-4.658	-3.419	1.00	0.00	H
ATOM	1153	N	PHE A	81152.873	-0.161	-1.704	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.202	1.044	-2.178	1.00	0.00	C
ATOM	1155	C	PHE A	81151.397	0.757	-3.441	1.00	0.00	C
ATOM	1156	O	PHE A	81151.830	-0.004	-4.307	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.225	2.147	-2.452	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.798	2.757	-1.203	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.181	3.843	-0.603	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.951	2.244	-0.632	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.705	4.406	0.546	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.480	2.804	0.515	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.856	3.885	1.105	1.00	0.00	C
ATOM	1164	H	PHE A	81153.823	-0.290	-1.907	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.528	1.375	-1.403	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.043	1.736	-3.025	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.752	2.935	-3.020	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.282	4.250	-1.039	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.440	1.398	-1.092	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.215	5.252	1.005	1.00	0.00	H

ATOM	1171	HE2	PHE A	81156.380	2.395	0.951	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.267	4.324	2.002	1.00	0.00	H
ATOM	1173	N	VAL A	82150.223	1.371	-3.541	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.357	1.182	-4.698	1.00	0.00	C
ATOM	1175	C	VAL A	82148.503	2.419	-4.955	1.00	0.00	C
ATOM	1176	O	VAL A	82148.414	3.310	-4.111	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.432	-0.036	-4.516	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.244	-1.323	-4.481	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.598	0.110	-3.253	1.00	0.00	C
ATOM	1180	H	VAL A	82149.931	1.966	-2.818	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.986	1.005	-5.558	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.762	-0.084	-5.361	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.765	-1.444	-5.419	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.582	-2.162	-4.327	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.960	-1.275	-3.674	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82148.172	-0.224	-2.401	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.703	-0.488	-3.341	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.326	1.146	-3.118	1.00	0.00	H
ATOM	1189	N	LYS A	83147.878	2.467	-6.127	1.00	0.00	N
ATOM	1190	CA	LYS A	83147.030	3.595	-6.496	1.00	0.00	C
ATOM	1191	C	LYS A	83145.755	3.614	-5.663	1.00	0.00	C
ATOM	1192	O	LYS A	83144.987	2.651	-5.660	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.683	3.532	-7.985	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.897	3.596	-8.895	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.601	2.995	-10.260	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.279	3.778	-11.373	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.808	2.884	-12.439	1.00	0.00	N

ATOM	1198	H	LYS A	83147.989	1.725	-6.758	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.583	4.502	-6.304	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.160	2.608	-8.181	1.00	0.00	H
ATOM	1201	2HB	LYS A	83146.034	4.361	-8.225	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.185	4.629	-9.023	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.708	3.047	-8.439	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.961	1.977	-10.280	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.534	3.005	-10.421	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.559	4.455	-11.810	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.096	4.346	-10.952	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.205	2.020	-12.015	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.557	3.368	-12.974	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.046	2.618	-13.094	1.00	0.00	H
ATOM	1211	N	LEU A	84145.535	4.718	-4.959	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.352	4.870	-4.120	1.00	0.00	C
ATOM	1213	C	LEU A	84143.077	4.738	-4.947	1.00	0.00	C
ATOM	1214	O	LEU A	84142.063	4.234	-4.466	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.380	6.228	-3.414	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.142	6.549	-2.574	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.231	5.874	-1.214	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.985	8.054	-2.414	1.00	0.00	C
ATOM	1219	H	LEU A	84146.184	5.450	-5.003	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.368	4.087	-3.376	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.245	6.255	-2.768	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.488	6.995	-4.164	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.265	6.171	-3.077	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84144.055	6.293	-0.656	1.00	0.00	H

ATOM	1225	2HD1	LEU A	84143.388	4.813	-1.349	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.310	6.034	-0.672	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.097	8.263	-1.837	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.898	8.512	-3.388	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.848	8.454	-1.904	1.00	0.00	H
ATOM	1230	N	LYS A	85143.138	5.191	-6.194	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.990	5.122	-7.089	1.00	0.00	C
ATOM	1232	C	LYS A	85141.606	3.673	-7.372	1.00	0.00	C
ATOM	1233	O	LYS A	85140.448	3.373	-7.667	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.293	5.847	-8.402	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.649	5.494	-8.994	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.650	6.623	-8.809	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.379	7.771	-9.768	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.695	9.092	-9.156	1.00	0.00	N
ATOM	1239	H	LYS A	85143.976	5.581	-6.521	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.161	5.612	-6.602	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.531	5.593	-9.125	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.267	6.912	-8.225	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.025	4.609	-8.504	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.529	5.300	-10.050	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.583	6.990	-7.796	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.645	6.241	-8.991	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.987	7.639	-10.650	1.00	0.00	H
ATOM	1248	2HE	LYS A	85143.335	7.753	-10.045	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.841	9.499	-8.724	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.048	9.748	-9.883	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.423	8.980	-8.422	1.00	0.00	H

ATOM	1252	N	SER A	86142.584	2.775	-7.280	1.00	0.00 N
ATOM	1253	CA	SER A	86142.345	1.358	-7.525	1.00	0.00 C
ATOM	1254	C	SER A	86142.297	0.580	-6.214	1.00	0.00 C
ATOM	1255	O	SER A	86142.676	-0.590	-6.160	1.00	0.00 O
ATOM	1256	CB	SER A	86143.436	0.785	-8.432	1.00	0.00 C
ATOM	1257	OG	SER A	86143.186	1.098	-9.791	1.00	0.00 O
ATOM	1258	H	SER A	86143.486	3.074	-7.041	1.00	0.00 H
ATOM	1259	HA	SER A	86141.391	1.263	-8.022	1.00	0.00 H
ATOM	1260	1HB	SER A	86144.392	1.203	-8.149	1.00	0.00 H
ATOM	1261	2HB	SER A	86143.467	-0.288	-8.321	1.00	0.00 H
ATOM	1262	HG	SER A	86143.785	0.598	-10.350	1.00	0.00 H
ATOM	1263	N	CYS A	87141.826	1.238	-5.159	1.00	0.00 N
ATOM	1264	CA	CYS A	87141.728	0.608	-3.846	1.00	0.00 C
ATOM	1265	C	CYS A	87140.270	0.475	-3.416	1.00	0.00 C
ATOM	1266	O	CYS A	87139.516	1.447	-3.434	1.00	0.00 O
ATOM	1267	CB	CYS A	87142.505	1.419	-2.808	1.00	0.00 C
ATOM	1268	SG	CYS A	87144.295	1.167	-2.864	1.00	0.00 S
ATOM	1269	H	CYS A	87141.539	2.169	-5.264	1.00	0.00 H
ATOM	1270	HA	CYS A	87142.161	-0.378	-3.918	1.00	0.00 H
ATOM	1271	1HB	CYS A	87142.317	2.470	-2.968	1.00	0.00 H
ATOM	1272	2HB	CYS A	87142.164	1.146	-1.820	1.00	0.00 H
ATOM	1273	HG	CYS A	87144.701	1.992	-3.141	1.00	0.00 H
ATOM	1274	N	ARG A	88139.880	-0.736	-3.030	1.00	0.00 N
ATOM	1275	CA	ARG A	88138.512	-0.995	-2.595	1.00	0.00 C
ATOM	1276	C	ARG A	88138.430	-1.067	-1.070	1.00	0.00 C
ATOM	1277	O	ARG A	88139.290	-1.665	-0.424	1.00	0.00 O
ATOM	1278	CB	ARG A	88138.000	-2.300	-3.207	1.00	0.00 C

ATOM	1279	CG	ARG A	88137.215	-2.102	-4.496	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.847	-2.762	-4.426	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.501	-3.440	-5.673	1.00	0.00	N
ATOM	1282	CZ	ARG A	88136.046	-4.589	-6.067	1.00	0.00	C
ATOM	1283	NH1	ARG A	88136.960	-5.190	-5.316	1.00	0.00	N
ATOM	1284	NH2	ARG A	88135.675	-5.138	-7.216	1.00	0.00	N
ATOM	1285	H	ARG A	88140.527	-1.472	-3.037	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.897	-0.179	-2.942	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.844	-2.940	-3.420	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.357	-2.793	-2.491	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.085	-1.044	-4.666	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.773	-2.534	-5.313	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.849	-3.484	-3.624	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.106	-2.002	-4.223	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.829	-3.017	-6.247	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88137.245	-4.782	-4.449	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88137.365	-6.054	-5.618	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.986	-4.690	-7.785	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88136.084	-6.001	-7.512	1.00	0.00	H
ATOM	1298	N	PRO A	89137.389	-0.458	-0.470	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.207	-0.463	0.985	1.00	0.00	C
ATOM	1300	C	PRO A	89137.212	-1.874	1.563	1.00	0.00	C
ATOM	1301	O	PRO A	89136.542	-2.770	1.047	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.834	0.187	1.178	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.628	1.014	-0.042	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.314	0.280	-1.159	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.962	0.129	1.480	1.00	0.00	H

ATOM	1306	1HB	PRO A	89135.080	-0.582	1.268	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.843	0.795	2.070	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.572	1.109	-0.247	1.00	0.00	H
ATOM	1309	2HG	PRO A	89136.074	1.988	0.095	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.627	-0.400	-1.641	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.721	0.978	-1.875	1.00	0.00	H
ATOM	1312	N	ASP A	90137.971	-2.066	2.637	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.062	-3.369	3.286	1.00	0.00	C
ATOM	1314	C	ASP A	90137.194	-3.414	4.539	1.00	0.00	C
ATOM	1315	O	ASP A	90137.553	-2.852	5.574	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.515	-3.683	3.646	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.770	-5.170	3.779	1.00	0.00	C
ATOM	1318	OD1	ASP A	90138.998	-5.960	3.194	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.742	-5.547	4.466	1.00	0.00	O
ATOM	1320	H	ASP A	90138.481	-1.313	3.003	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.705	-4.112	2.588	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.163	-3.293	2.876	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.756	-3.209	4.586	1.00	0.00	H
ATOM	1324	N	SER A	91136.051	-4.083	4.438	1.00	0.00	N
ATOM	1325	CA	SER A	91135.132	-4.199	5.565	1.00	0.00	C
ATOM	1326	C	SER A	91135.319	-5.531	6.287	1.00	0.00	C
ATOM	1327	O	SER A	91134.391	-6.042	6.914	1.00	0.00	O
ATOM	1328	CB	SER A	91133.685	-4.070	5.084	1.00	0.00	C
ATOM	1329	OG	SER A	91132.862	-3.503	6.087	1.00	0.00	O
ATOM	1330	H	SER A	91135.820	-4.509	3.586	1.00	0.00	H
ATOM	1331	HA	SER A	91135.347	-3.396	6.253	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.654	-3.437	4.210	1.00	0.00	H

ATOM	1333	2HB	SER A	91133.305	-5.048	4.835	1.00	0.00	H
ATOM	1334	HG	SER A	91132.155	-4.114	6.306	1.00	0.00	H
ATOM	1335	N	ARG A	92136.523	-6.087	6.196	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.827	-7.358	6.843	1.00	0.00	C
ATOM	1337	C	ARG A	92136.775	-7.223	8.361	1.00	0.00	C
ATOM	1338	O	ARG A	92136.495	-8.190	9.069	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.206	-7.857	6.410	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.174	-8.739	5.172	1.00	0.00	C
ATOM	1341	CD	ARG A	92138.248	-10.214	5.535	1.00	0.00	C
ATOM	1342	NE	ARG A	92136.935	-10.764	5.863	1.00	0.00	N
ATOM	1343	CZ	ARG A	92136.749	-11.965	6.405	1.00	0.00	C
ATOM	1344	NH1	ARG A	92137.787	-12.744	6.682	1.00	0.00	N
ATOM	1345	NH2	ARG A	92135.521	-12.389	6.672	1.00	0.00	N
ATOM	1346	H	ARG A	92137.223	-5.632	5.683	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.081	-8.074	6.531	1.00	0.00	H
ATOM	1348	1HB	ARG A	92138.836	-7.006	6.201	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.641	-8.425	7.219	1.00	0.00	H
ATOM	1350	1HG	ARG A	92137.254	-8.557	4.636	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.014	-8.489	4.541	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.656	-10.758	4.696	1.00	0.00	H
ATOM	1353	2HD	ARG A	92138.899	-10.328	6.388	1.00	0.00	H
ATOM	1354	HE	ARG A	92136.150	-10.210	5.669	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.716	-12.431	6.484	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.641	-13.646	7.089	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92134.735	-11.806	6.465	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92135.380	-13.291	7.079	1.00	0.00	H
ATOM	1359	N	PHE A	93137.048	-6.019	8.855	1.00	0.00	N

ATOM	1360	CA	PHE A	93137.034	-5.761	10.290	1.00	0.00	C
ATOM	1361	C	PHE A	93135.930	-4.775	10.661	1.00	0.00	C
ATOM	1362	O	PHE A	93136.032	-4.064	11.661	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.389	-5.219	10.745	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.526	-6.177	10.522	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.891	-6.553	9.239	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.229	-6.702	11.595	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.935	-7.433	9.030	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.274	-7.583	11.393	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.628	-7.948	10.109	1.00	0.00	C
ATOM	1370	H	PHE A	93137.266	-5.288	8.240	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.845	-6.699	10.792	1.00	0.00	H
ATOM	1372	1HB	PHE A	93138.608	-4.314	10.200	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.344	-4.997	11.801	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.349	-6.151	8.395	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.952	-6.416	12.599	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.209	-7.719	8.026	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.813	-7.983	12.237	1.00	0.00	H
ATOM	1378	HZ	PHE A	93142.445	-8.637	9.949	1.00	0.00	H
ATOM	1379	N	ALAA	94134.873	-4.736	9.854	1.00	0.00	N
ATOM	1380	CA	ALAA	94133.756	-3.835	10.107	1.00	0.00	C
ATOM	1381	C	ALAA	94132.757	-4.457	11.077	1.00	0.00	C
ATOM	1382	O	ALAA	94132.321	-5.594	10.889	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.067	-3.468	8.802	1.00	0.00	C
ATOM	1384	H	ALAA	94134.845	-5.326	9.071	1.00	0.00	H
ATOM	1385	HA	ALAA	94134.151	-2.930	10.545	1.00	0.00	H
ATOM	1386	1HB	ALAA	94132.561	-4.335	8.406	1.00	0.00	H

ATOM	1387	2HB	ALA A	94133.804	-3.125	8.090	1.00	0.00	H
ATOM	1388	3HB	ALA A	94132.349	-2.681	8.982	1.00	0.00	H
ATOM	1389	N	SER A	95132.399	-3.706	12.113	1.00	0.00	N
ATOM	1390	CA	SER A	95131.452	-4.186	13.113	1.00	0.00	C
ATOM	1391	C	SER A	95130.078	-3.554	12.910	1.00	0.00	C
ATOM	1392	O	SER A	95129.848	-2.409	13.298	1.00	0.00	O
ATOM	1393	CB	SER A	95131.965	-3.878	14.521	1.00	0.00	C
ATOM	1394	OG	SER A	95133.165	-4.580	14.792	1.00	0.00	O
ATOM	1395	H	SER A	95132.781	-2.810	12.209	1.00	0.00	H
ATOM	1396	HA	SER A	95131.362	-5.256	12.998	1.00	0.00	H
ATOM	1397	1HB	SER A	95132.155	-2.819	14.609	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.219	-4.171	15.246	1.00	0.00	H
ATOM	1399	HG	SER A	95133.818	-4.372	14.120	1.00	0.00	H
ATOM	1400	N	LEU A	96129.170	-4.307	12.301	1.00	0.00	N
ATOM	1401	CA	LEU A	96127.818	-3.822	12.047	1.00	0.00	C
ATOM	1402	C	LEU A	96126.868	-4.978	11.769	1.00	0.00	C
ATOM	1403	O	LEU A	96125.968	-5.262	12.560	1.00	0.00	O
ATOM	1404	CB	LEU A	96127.817	-2.846	10.868	1.00	0.00	C
ATOM	1405	CG	LEU A	96126.848	-1.671	11.002	1.00	0.00	C
ATOM	1406	CD1	LEU A	96127.276	-0.753	12.137	1.00	0.00	C
ATOM	1407	CD2	LEU A	96126.762	-0.899	9.694	1.00	0.00	C
ATOM	1408	H	LEU A	96129.413	-5.213	12.014	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.483	-3.305	12.929	1.00	0.00	H
ATOM	1410	1HB	LEU A	96128.815	-2.452	10.753	1.00	0.00	H
ATOM	1411	2HB	LEU A	96127.560	-3.395	9.974	1.00	0.00	H
ATOM	1412	HG	LEU A	96125.861	-2.049	11.233	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96126.400	-0.374	12.643	1.00	0.00	H

ATOM	1414	2HD1	LEU A	96127.846	0.072	11.737	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.884	-1.307	12.837	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.248	-1.497	8.956	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96127.759	-0.675	9.343	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.220	0.021	9.852	1.00	0.00	H
ATOM	1419	N	GLN A	97127.076	-5.641	10.640	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.241	-6.771	10.249	1.00	0.00	C
ATOM	1421	C	GLN A	97126.998	-7.707	9.308	1.00	0.00	C
ATOM	1422	O	GLN A	97127.832	-7.264	8.518	1.00	0.00	O
ATOM	1423	CB	GLN A	97124.960	-6.276	9.574	1.00	0.00	C
ATOM	1424	CG	GLN A	97123.774	-6.178	10.520	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.253	-7.538	10.943	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.361	-8.099	10.307	1.00	0.00	O
ATOM	1427	NE2	GLN A	97123.808	-8.075	12.023	1.00	0.00	N
ATOM	1428	H	GLN A	97127.810	-5.364	10.056	1.00	0.00	H
ATOM	1429	HA	GLN A	97125.980	-7.314	11.144	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.141	-5.296	9.157	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.700	-6.955	8.775	1.00	0.00	H
ATOM	1432	1HG	GLN A	97124.077	-5.636	11.403	1.00	0.00	H
ATOM	1433	2HG	GLN A	97122.978	-5.642	10.025	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97124.514	-7.571	12.480	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97123.490	-8.953	12.319	1.00	0.00	H
ATOM	1436	N	PRO A	98126.716	-9.019	9.381	1.00	0.00	N
ATOM	1437	CA	PRO A	98127.376	-10.016	8.532	1.00	0.00	C
ATOM	1438	C	PRO A	98127.270	-9.675	7.049	1.00	0.00	C
ATOM	1439	O	PRO A	98126.214	-9.258	6.572	1.00	0.00	O
ATOM	1440	CB	PRO A	98126.617	-11.309	8.838	1.00	0.00	C

ATOM	1441	CG	PRO A	98126.044	-11.102	10.197	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.737	-9.634	10.295	1.00	0.00	C
ATOM	1443	HA	PRO A	98128.417	-10.136	8.797	1.00	0.00	H
ATOM	1444	1HB	PRO A	98125.842	-11.458	8.100	1.00	0.00	H
ATOM	1445	2HB	PRO A	98127.301	-12.145	8.822	1.00	0.00	H
ATOM	1446	1HG	PRO A	98125.141	-11.683	10.308	1.00	0.00	H
ATOM	1447	2HG	PRO A	98126.768	-11.384	10.947	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.726	-9.437	9.967	1.00	0.00	H
ATOM	1449	2HD	PRO A	98125.881	-9.285	11.307	1.00	0.00	H
ATOM	1450	N	SER A	99128.369	-9.858	6.324	1.00	0.00	N
ATOM	1451	CA	SER A	99128.399	-9.570	4.895	1.00	0.00	C
ATOM	1452	C	SER A	99128.077	-8.103	4.626	1.00	0.00	C
ATOM	1453	O	SER A	99127.588	-7.393	5.505	1.00	0.00	O
ATOM	1454	CB	SER A	99127.406	-10.466	4.153	1.00	0.00	C
ATOM	1455	OG	SER A	99127.943	-10.913	2.920	1.00	0.00	O
ATOM	1456	H	SER A	99129.179	-10.193	6.762	1.00	0.00	H
ATOM	1457	HA	SER A	99129.395	-9.779	4.536	1.00	0.00	H
ATOM	1458	1HB	SER A	99127.175	-11.327	4.763	1.00	0.00	H
ATOM	1459	2HB	SER A	99126.500	-9.912	3.957	1.00	0.00	H
ATOM	1460	HG	SER A	99128.190	-10.155	2.385	1.00	0.00	H
ATOM	1461	N	GLY A	100128.355	-7.656	3.406	1.00	0.00	N
ATOM	1462	CA	GLY A	100128.090	-6.277	3.042	1.00	0.00	C
ATOM	1463	C	GLY A	100126.602	-5.977	2.953	1.00	0.00	C
ATOM	1464	O	GLY A	100125.843	-6.340	3.851	1.00	0.00	O
ATOM	1465	H	GLY A	100128.744	-8.268	2.747	1.00	0.00	H
ATOM	1466	1HA	GLY A	100128.532	-5.629	3.784	1.00	0.00	H
ATOM	1467	2HA	GLY A	100128.546	-6.077	2.085	1.00	0.00	H

ATOM	1468	N	PRO A 101126.151	-5.310	1.875	1.00	0.00	N
ATOM	1469	CA	PRO A 101124.735	-4.972	1.693	1.00	0.00	C
ATOM	1470	C	PRO A 101123.819	-6.174	1.896	1.00	0.00	C
ATOM	1471	O	PRO A 101122.650	-6.023	2.253	1.00	0.00	O
ATOM	1472	CB	PRO A 101124.670	-4.489	0.244	1.00	0.00	C
ATOM	1473	CG	PRO A 101126.037	-3.973	-0.043	1.00	0.00	C
ATOM	1474	CD	PRO A 101126.981	-4.835	0.750	1.00	0.00	C
ATOM	1475	HA	PRO A 101124.431	-4.174	2.356	1.00	0.00	H
ATOM	1476	1HB	PRO A 101124.414	-5.316	-0.403	1.00	0.00	H
ATOM	1477	2HB	PRO A 101123.928	-3.710	0.154	1.00	0.00	H
ATOM	1478	1HG	PRO A 101126.247	-4.059	-1.099	1.00	0.00	H
ATOM	1479	2HG	PRO A 101126.115	-2.943	0.273	1.00	0.00	H
ATOM	1480	1HD	PRO A 101127.328	-5.664	0.151	1.00	0.00	H
ATOM	1481	2HD	PRO A 101127.815	-4.250	1.108	1.00	0.00	H
ATOM	1482	N	SER A 102124.356	-7.368	1.667	1.00	0.00	N
ATOM	1483	CA	SER A 102123.586	-8.596	1.826	1.00	0.00	C
ATOM	1484	C	SER A 102122.398	-8.621	0.870	1.00	0.00	C
ATOM	1485	O	SER A 102121.465	-7.828	1.002	1.00	0.00	O
ATOM	1486	CB	SER A 102123.096	-8.734	3.269	1.00	0.00	C
ATOM	1487	OG	SER A 102122.624	-10.046	3.525	1.00	0.00	O
ATOM	1488	H	SER A 102125.293	-7.425	1.385	1.00	0.00	H
ATOM	1489	HA	SER A 102124.235	-9.427	1.595	1.00	0.00	H
ATOM	1490	1HB	SER A 102123.910	-8.520	3.946	1.00	0.00	H
ATOM	1491	2HB	SER A 102122.292	-8.035	3.442	1.00	0.00	H
ATOM	1492	HG	SER A 102122.058	-10.037	4.300	1.00	0.00	H
ATOM	1493	N	SER A 103122.438	-9.537	-0.093	1.00	0.00	N
ATOM	1494	CA	SER A 103121.366	-9.665	-1.072	1.00	0.00	C

ATOM	1495	C	SER A 103	120.185	-10.435	-0.487	1.00	0.00	C
ATOM	1496	O	SER A 103	119.033	-10.025	-0.627	1.00	0.00	O
ATOM	1497	CB	SER A 103	121.876	-10.370	-2.329	1.00	0.00	C
ATOM	1498	OG	SER A 103	120.830	-10.568	-3.265	1.00	0.00	O
ATOM	1499	H	SER A 103	123.209	-10.140	-0.146	1.00	0.00	H
ATOM	1500	HA	SER A 103	121.037	-8.671	-1.335	1.00	0.00	H
ATOM	1501	1HB	SER A 103	122.644	-9.767	-2.791	1.00	0.00	H
ATOM	1502	2HB	SER A 103	122.287	-11.331	-2.059	1.00	0.00	H
ATOM	1503	HG	SER A 103	120.950	-9.976	-4.010	1.00	0.00	H
ATOM	1504	N	GLY A 104	120.480	-11.552	0.168	1.00	0.00	N
ATOM	1505	CA	GLY A 104	119.434	-12.362	0.764	1.00	0.00	C
ATOM	1506	C	GLY A 104	119.128	-11.954	2.192	1.00	0.00	C
ATOM	1507	O	GLY A 104	119.791	-12.475	3.113	1.00	0.00	O
ATOM	1508	OXT	GLY A 104	118.225	-11.113	2.389	1.00	0.00	O
ATOM	1509	H	GLY A 104	121.417	-11.830	0.247	1.00	0.00	H
ATOM	1510	1HA	GLY A 104	118.536	-12.261	0.173	1.00	0.00	H
ATOM	1511	2HA	GLY A 104	119.745	-13.396	0.755	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 17

ATOM 1	N	GLY A	1109.574	7.515	6.275	1.00	0.00	N
ATOM 2	CA	GLY A	1110.983	7.839	5.923	1.00	0.00	C
ATOM 3	C	GLY A	1111.857	6.603	5.837	1.00	0.00	C
ATOM 4	O	GLY A	1111.736	5.690	6.653	1.00	0.00	O
ATOM 5	1H	GLY A	1109.009	7.388	5.412	1.00	0.00	H
ATOM 6	2H	GLY A	1109.159	8.287	6.836	1.00	0.00	H

ATOM 7 3H	GLY A	1109.537	6.638	6.833	1.00	0.00	H
ATOM 8 1HA	GLY A	1110.998	8.343	4.967	1.00	0.00	H
ATOM 9 2HA	GLY A	1111.388	8.501	6.674	1.00	0.00	H
ATOM10 N	SER A	2112.742	6.574	4.845	1.00	0.00	N
ATOM11 CA	SER A	2113.641	5.442	4.655	1.00	0.00	C
ATOM12 C	SER A	2115.081	5.913	4.477	1.00	0.00	C
ATOM13 O	SER A	2115.554	6.083	3.353	1.00	0.00	O
ATOM14 CB	SER A	2113.208	4.619	3.441	1.00	0.00	C
ATOM15 OG	SER A	2114.165	3.619	3.134	1.00	0.00	O
ATOM16 H	SER A	2112.791	7.333	4.226	1.00	0.00	H
ATOM17 HA	SER A	2113.584	4.822	5.537	1.00	0.00	H
ATOM18 1HB	SER A	2112.263	4.141	3.650	1.00	0.00	H
ATOM19 2HB	SER A	2113.100	5.272	2.587	1.00	0.00	H
ATOM20 HG	SER A	2114.942	4.028	2.745	1.00	0.00	H
ATOM21 N	SER A	3115.771	6.123	5.593	1.00	0.00	N
ATOM22 CA	SER A	3117.157	6.575	5.561	1.00	0.00	C
ATOM23 C	SER A	3118.117	5.391	5.619	1.00	0.00	C
ATOM24 O	SER A	3118.026	4.548	6.511	1.00	0.00	O
ATOM25 CB	SER A	3117.432	7.527	6.725	1.00	0.00	C
ATOM26 OG	SER A	3118.306	8.573	6.335	1.00	0.00	O
ATOM27 H	SER A	3115.338	5.970	6.459	1.00	0.00	H
ATOM28 HA	SER A	3117.312	7.102	4.632	1.00	0.00	H
ATOM29 1HB	SER A	3116.502	7.960	7.063	1.00	0.00	H
ATOM30 2HB	SER A	3117.889	6.978	7.537	1.00	0.00	H
ATOM31 HG	SER A	3119.206	8.241	6.298	1.00	0.00	H
ATOM32 N	GLY A	4119.037	5.334	4.662	1.00	0.00	N
ATOM33 CA	GLY A	4120.001	4.250	4.623	1.00	0.00	C

ATOM34	C	GLY A	4120.628	4.080	3.253	1.00	0.00	C
ATOM35	O	GLY A	4121.843	3.920	3.135	1.00	0.00	O
ATOM36	H	GLY A	4119.063	6.035	3.977	1.00	0.00	H
ATOM37 1HA		GLY A	4120.782	4.451	5.342	1.00	0.00	H
ATOM38 2HA		GLY A	4119.503	3.331	4.896	1.00	0.00	H
ATOM39	N	SER A	5119.798	4.115	2.216	1.00	0.00	N
ATOM40	CA	SER A	5120.278	3.963	0.847	1.00	0.00	C
ATOM41	C	SER A	5120.423	5.321	0.168	1.00	0.00	C
ATOM42	O	SER A	5120.246	5.441	-1.044	1.00	0.00	O
ATOM43	CB	SER A	5119.322	3.079	0.044	1.00	0.00	C
ATOM44	OG	SER A	5119.831	2.823	-1.253	1.00	0.00	O
ATOM45	H	SER A	5118.839	4.245	2.375	1.00	0.00	H
ATOM46	HA	SER A	5121.246	3.487	0.887	1.00	0.00	H
ATOM47 1HB		SER A	5119.190	2.137	0.557	1.00	0.00	H
ATOM48 2HB		SER A	5118.367	3.575	-0.048	1.00	0.00	H
ATOM49	HG	SER A	5119.113	2.852	-1.890	1.00	0.00	H
ATOM50	N	SER A	6120.749	6.340	0.957	1.00	0.00	N
ATOM51	CA	SER A	6120.918	7.689	0.431	1.00	0.00	C
ATOM52	C	SER A	6122.386	7.974	0.128	1.00	0.00	C
ATOM53	O	SER A	6123.256	7.772	0.975	1.00	0.00	O
ATOM54	CB	SER A	6120.383	8.718	1.429	1.00	0.00	C
ATOM55	OG	SER A	6119.051	8.418	1.807	1.00	0.00	O
ATOM56	H	SER A	6120.877	6.180	1.915	1.00	0.00	H
ATOM57	HA	SER A	6120.353	7.761	-0.485	1.00	0.00	H
ATOM58 1HB		SER A	6121.003	8.716	2.314	1.00	0.00	H
ATOM59 2HB		SER A	6120.404	9.699	0.976	1.00	0.00	H
ATOM60	HG	SER A	6118.527	8.244	1.021	1.00	0.00	H

ATOM61	N	GLY A	7122.652	8.444	-1.086	1.00	0.00	N
ATOM62	CA	GLY A	7124.015	8.748	-1.480	1.00	0.00	C
ATOM63	C	GLY A	7124.570	9.962	-0.761	1.00	0.00	C
ATOM64	O	GLY A	7124.094	10.326	0.314	1.00	0.00	O
ATOM65	H	GLY A	7121.918	8.585	-1.720	1.00	0.00	H
ATOM66	1HA	GLY A	7124.641	7.896	-1.260	1.00	0.00	H
ATOM67	2HA	GLY A	7124.039	8.932	-2.545	1.00	0.00	H
ATOM68	N	LEU A	8125.580	10.589	-1.355	1.00	0.00	N
ATOM69	CA	LEU A	8126.204	11.769	-0.765	1.00	0.00	C
ATOM70	C	LEU A	8126.921	11.411	0.531	1.00	0.00	C
ATOM71	O	LEU A	8127.000	12.224	1.453	1.00	0.00	O
ATOM72	CB	LEU A	8125.156	12.853	-0.502	1.00	0.00	C
ATOM73	CG	LEU A	8124.251	13.182	-1.691	1.00	0.00	C
ATOM74	CD1	LEU A	8122.874	13.613	-1.210	1.00	0.00	C
ATOM75	CD2	LEU A	8124.879	14.265	-2.554	1.00	0.00	C
ATOM76	H	LEU A	8125.917	10.249	-2.210	1.00	0.00	H
ATOM77	HA	LEU A	8126.930	12.146	-1.470	1.00	0.00	H
ATOM78	1HB	LEU A	8124.534	12.531	0.320	1.00	0.00	H
ATOM79	2HB	LEU A	8125.669	13.758	-0.210	1.00	0.00	H
ATOM80	HG	LEU A	8124.130	12.297	-2.298	1.00	0.00	H
ATOM81	1HD1	LEU A	8122.440	14.294	-1.927	1.00	0.00	H
ATOM82	2HD1	LEU A	8122.965	14.107	-0.254	1.00	0.00	H
ATOM83	3HD1	LEU A	8122.240	12.744	-1.109	1.00	0.00	H
ATOM84	1HD2	LEU A	8125.765	13.874	-3.036	1.00	0.00	H
ATOM85	2HD2	LEU A	8125.150	15.108	-1.935	1.00	0.00	H
ATOM86	3HD2	LEU A	8124.172	14.583	-3.305	1.00	0.00	H
ATOM87	N	ALA A	9127.439	10.190	0.595	1.00	0.00	N

ATOM88	CA	ALA A	9128.148	9.722	1.778	1.00	0.00	C	
ATOM89	C	ALA A	9129.632	9.527	1.487	1.00	0.00	C	
ATOM90	O	ALA A	9130.106	8.399	1.351	1.00	0.00	O	
ATOM91	CB	ALA A	9127.533	8.427	2.285	1.00	0.00	C	
ATOM92	H	ALA A	9127.342	9.588	-0.172	1.00	0.00	H	
ATOM93	HA	ALA A	9128.038	10.471	2.548	1.00	0.00	H	
ATOM94	1HB	ALA A	9127.579	8.404	3.365	1.00	0.00	H	
ATOM95	2HB	ALA A	9128.080	7.587	1.884	1.00	0.00	H	
ATOM96	3HB	ALA A	9126.502	8.370	1.968	1.00	0.00	H	
ATOM97	N	MET A	10130.362	10.634	1.394	1.00	0.00	N	
ATOM98	CA	MET A	10131.793	10.585	1.119	1.00	0.00	C	
ATOM99	C	MET A	10132.527	11.709	1.846	1.00	0.00	C	
ATOM	100	O	MET A	10132.855	12.735	1.249	1.00	0.00	O
ATOM	101	CB	MET A	10132.050	10.683	-0.386	1.00	0.00	C
ATOM	102	CG	MET A	10131.113	9.826	-1.221	1.00	0.00	C
ATOM	103	SD	MET A	10131.259	10.156	-2.988	1.00	0.00	S
ATOM	104	CE	MET A	10130.176	11.573	-3.159	1.00	0.00	C
ATOM	105	H	MET A	10129.928	11.504	1.513	1.00	0.00	H
ATOM	106	HA	MET A	10132.167	9.638	1.477	1.00	0.00	H
ATOM	107	1HB	MET A	10131.932	11.712	-0.693	1.00	0.00	H
ATOM	108	2HB	MET A	10133.064	10.371	-0.587	1.00	0.00	H
ATOM	109	1HG	MET A	10131.343	8.786	-1.044	1.00	0.00	H
ATOM	110	2HG	MET A	10130.096	10.025	-0.915	1.00	0.00	H
ATOM	111	1HE	MET A	10129.599	11.695	-2.255	1.00	0.00	H
ATOM	112	2HE	MET A	10129.509	11.418	-3.994	1.00	0.00	H
ATOM	113	3HE	MET A	10130.769	12.460	-3.331	1.00	0.00	H
ATOM	114	N	PRO A	11132.795	11.531	3.151	1.00	0.00	N

ATOM	115	CA	PRO A	11133.493	12.536	3.958	1.00	0.00 C
ATOM	116	C	PRO A	11134.868	12.891	3.391	1.00	0.00 C
ATOM	117	O	PRO A	11135.215	14.069	3.286	1.00	0.00 O
ATOM	118	CB	PRO A	11133.637	11.869	5.330	1.00	0.00 C
ATOM	119	CG	PRO A	11132.591	10.807	5.358	1.00	0.00 C
ATOM	120	CD	PRO A	11132.441	10.338	3.939	1.00	0.00 C
ATOM	121	HA	PRO A	11132.907	13.437	4.055	1.00	0.00 H
ATOM	122	1HB	PRO A	11134.628	11.451	5.429	1.00	0.00 H
ATOM	123	2HB	PRO A	11133.473	12.601	6.106	1.00	0.00 H
ATOM	124	1HG	PRO A	11132.912	9.992	5.990	1.00	0.00 H
ATOM	125	2HG	PRO A	11131.660	11.219	5.717	1.00	0.00 H
ATOM	126	1HD	PRO A	11133.121	9.525	3.735	1.00	0.00 H
ATOM	127	2HD	PRO A	11131.421	10.037	3.746	1.00	0.00 H
ATOM	128	N	PRO A	12135.676	11.882	3.014	1.00	0.00 N
ATOM	129	CA	PRO A	12137.010	12.110	2.462	1.00	0.00 C
ATOM	130	C	PRO A	12136.973	12.458	0.977	1.00	0.00 C
ATOM	131	O	PRO A	12137.853	13.154	0.470	1.00	0.00 O
ATOM	132	CB	PRO A	12137.703	10.768	2.679	1.00	0.00 C
ATOM	133	CG	PRO A	12136.606	9.762	2.590	1.00	0.00 C
ATOM	134	CD	PRO A	12135.358	10.441	3.100	1.00	0.00 C
ATOM	135	HA	PRO A	12137.538	12.883	3.000	1.00	0.00 H
ATOM	136	1HB	PRO A	12138.447	10.614	1.912	1.00	0.00 H
ATOM	137	2HB	PRO A	12138.172	10.754	3.653	1.00	0.00 H
ATOM	138	1HG	PRO A	12136.473	9.458	1.563	1.00	0.00 H
ATOM	139	2HG	PRO A	12136.843	8.907	3.206	1.00	0.00 H
ATOM	140	1HD	PRO A	12134.516	10.195	2.468	1.00	0.00 H
ATOM	141	2HD	PRO A	12135.162	10.148	4.119	1.00	0.00 H

ATOM	142	N	GLY A	13135.948	11.969	0.286	1.00	0.00	N
ATOM	143	CA	GLY A	13135.814	12.240	-1.134	1.00	0.00	C
ATOM	144	C	GLY A	13136.106	11.020	-1.986	1.00	0.00	C
ATOM	145	O	GLY A	13136.549	11.144	-3.128	1.00	0.00	O
ATOM	146	H	GLY A	13135.277	11.422	0.744	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.806	12.572	-1.333	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.502	13.027	-1.405	1.00	0.00	H
ATOM	149	N	ASN A	14135.856	9.839	-1.429	1.00	0.00	N
ATOM	150	CA	ASN A	14136.095	8.591	-2.146	1.00	0.00	C
ATOM	151	C	ASN A	14134.797	7.810	-2.324	1.00	0.00	C
ATOM	152	O	ASN A	14133.725	8.271	-1.933	1.00	0.00	O
ATOM	153	CB	ASN A	14137.118	7.736	-1.395	1.00	0.00	C
ATOM	154	CG	ASN A	14138.547	8.090	-1.762	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.983	7.867	-2.891	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.282	8.643	-0.805	1.00	0.00	N
ATOM	157	H	ASN A	14135.504	9.806	-0.516	1.00	0.00	H
ATOM	158	HA	ASN A	14136.490	8.838	-3.120	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.991	7.884	-0.334	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.951	6.695	-1.633	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.869	8.790	0.071	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.209	8.881	-1.015	1.00	0.00	H
ATOM	163	N	SER A	15134.902	6.626	-2.919	1.00	0.00	N
ATOM	164	CA	SER A	15133.735	5.781	-3.150	1.00	0.00	C
ATOM	165	C	SER A	15133.058	5.418	-1.833	1.00	0.00	C
ATOM	166	O	SER A	15131.832	5.463	-1.721	1.00	0.00	O
ATOM	167	CB	SER A	15134.141	4.509	-3.896	1.00	0.00	C
ATOM	168	OG	SER A	15135.366	3.996	-3.402	1.00	0.00	O

ATOM	169	H	SER A	15135.784	6.313	-3.209	1.00	0.00	H
ATOM	170	HA	SER A	15133.038	6.338	-3.758	1.00	0.00	H
ATOM	171	1HB	SER A	15133.375	3.759	-3.768	1.00	0.00	H
ATOM	172	2HB	SER A	15134.256	4.732	-4.947	1.00	0.00	H
ATOM	173	HG	SER A	15136.091	4.319	-3.944	1.00	0.00	H
ATOM	174	N	HIS A	16133.863	5.058	-0.838	1.00	0.00	N
ATOM	175	CA	HIS A	16133.341	4.686	0.472	1.00	0.00	C
ATOM	176	C	HIS A	16134.065	5.445	1.580	1.00	0.00	C
ATOM	177	O	HIS A	16133.516	6.377	2.169	1.00	0.00	O
ATOM	178	CB	HIS A	16133.483	3.180	0.692	1.00	0.00	C
ATOM	179	CG	HIS A	16132.282	2.396	0.262	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.541	1.618	1.126	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.693	2.273	-0.952	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.548	1.051	0.464	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.618	1.432	-0.798	1.00	0.00	N
ATOM	184	H	HIS A	16134.832	5.042	-0.989	1.00	0.00	H
ATOM	185	HA	HIS A	16132.294	4.948	0.497	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.332	2.819	0.131	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.645	2.990	1.743	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.716	1.500	2.082	1.00	0.00	H
ATOM	189	HD2	HIS A	16132.008	2.749	-1.869	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.806	0.388	0.884	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.951	1.229	-1.486	1.00	0.00	H
ATOM	192	N	GLY A	17135.299	5.039	1.859	1.00	0.00	N
ATOM	193	CA	GLY A	17136.077	5.691	2.896	1.00	0.00	C
ATOM	194	C	GLY A	17137.419	5.024	3.121	1.00	0.00	C
ATOM	195	O	GLY A	17137.615	4.326	4.115	1.00	0.00	O

ATOM	196	H	GLY A	17135.685	4.290	1.358	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.242	6.720	2.614	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.517	5.667	3.820	1.00	0.00	H
ATOM	199	N	LEU A	18138.347	5.239	2.194	1.00	0.00	N
ATOM	200	CA	LEU A	18139.679	4.652	2.295	1.00	0.00	C
ATOM	201	C	LEU A	18140.695	5.688	2.766	1.00	0.00	C
ATOM	202	O	LEU A	18141.140	6.534	1.990	1.00	0.00	O
ATOM	203	CB	LEU A	18140.110	4.076	0.944	1.00	0.00	C
ATOM	204	CG	LEU A	18139.159	3.035	0.352	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.352	2.932	-1.153	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.374	1.682	1.014	1.00	0.00	C
ATOM	207	H	LEU A	18138.131	5.804	1.424	1.00	0.00	H
ATOM	208	HA	LEU A	18139.635	3.854	3.019	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.201	4.892	0.242	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.080	3.618	1.066	1.00	0.00	H
ATOM	211	HG	LEU A	18138.140	3.341	0.537	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.299	2.457	-1.363	1.00	0.00	H,
ATOM	213	2HD1	LEU A	18139.342	3.921	-1.586	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.553	2.344	-1.578	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.165	1.761	2.069	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.398	1.371	0.871	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.711	0.955	0.568	1.00	0.00	H
ATOM	218	N	GLU A	19141.056	5.617	4.043	1.00	0.00	N
ATOM	219	CA	GLU A	19142.020	6.550	4.617	1.00	0.00	C
ATOM	220	C	GLU A	19143.024	5.818	5.502	1.00	0.00	C
ATOM	221	O	GLU A	19142.907	4.614	5.728	1.00	0.00	O
ATOM	222	CB	GLU A	19141.298	7.627	5.429	1.00	0.00	C

ATOM	223	CG	GLU A	19140.306	7.067	6.435	1.00	0.00	C
ATOM	224	CD	GLU A	19139.750	8.132	7.360	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.254	9.159	6.851	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.812	7.939	8.592	1.00	0.00	O
ATOM	227	H	GLU A	19140.667	4.922	4.612	1.00	0.00	H
ATOM	228	HA	GLU A	19142.551	7.020	3.803	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.032	8.210	5.965	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.762	8.274	4.750	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.485	6.614	5.900	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.803	6.316	7.032	1.00	0.00	H
ATOM	233	N	VAL A	20144.012	6.554	6.001	1.00	0.00	N
ATOM	234	CA	VAL A	20145.037	5.976	6.861	1.00	0.00	C
ATOM	235	C	VAL A	20144.422	5.372	8.118	1.00	0.00	C
ATOM	236	O	VAL A	20143.522	5.956	8.724	1.00	0.00	O
ATOM	237	CB	VAL A	20146.085	7.028	7.270	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.242	6.371	8.007	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.583	7.788	6.051	1.00	0.00	C
ATOM	240	H	VAL A	20144.052	7.509	5.785	1.00	0.00	H
ATOM	241	HA	VAL A	20145.537	5.196	6.306	1.00	0.00	H
ATOM	242	HB	VAL A	20145.616	7.733	7.941	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.951	6.169	9.027	1.00	0.00	H
ATOM	244	2HG1	VAL A	20148.095	7.033	8.000	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.502	5.444	7.516	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.614	8.072	6.200	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.983	8.674	5.910	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.506	7.157	5.177	1.00	0.00	H
ATOM	249	N	GLY A	21144.912	4.199	8.507	1.00	0.00	N

ATOM	250	CA	GLY A	21144.398	3.536	9.691	1.00	0.00 C
ATOM	251	C	GLY A	21143.343	2.498	9.363	1.00	0.00 C
ATOM	252	O	GLY A	21143.183	1.516	10.089	1.00	0.00 O
ATOM	253	H	GLY A	21145.628	3.781	7.985	1.00	0.00 H
ATOM	254	1HA	GLY A	21145.216	3.053	10.204	1.00	0.00 H
ATOM	255	2HA	GLY A	21143.965	4.278	10.346	1.00	0.00 H
ATOM	256	N	SER A	22142.624	2.712	8.267	1.00	0.00 N
ATOM	257	CA	SER A	22141.580	1.786	7.844	1.00	0.00 C
ATOM	258	C	SER A	22142.140	0.728	6.899	1.00	0.00 C
ATOM	259	O	SER A	22143.122	0.967	6.197	1.00	0.00 O
ATOM	260	CB	SER A	22140.442	2.546	7.160	1.00	0.00 C
ATOM	261	OG	SER A	22139.581	3.144	8.115	1.00	0.00 O
ATOM	262	H	SER A	22142.800	3.512	7.728	1.00	0.00 H
ATOM	263	HA	SER A	22141.194	1.297	8.725	1.00	0.00 H
ATOM	264	1HB	SER A	22140.855	3.322	6.533	1.00	0.00 H
ATOM	265	2HB	SER A	22139.867	1.861	6.554	1.00	0.00 H
ATOM	266	HG	SER A	22138.759	3.401	7.688	1.00	0.00 H
ATOM	267	N	LEU A	23141.508	-0.441	6.887	1.00	0.00 N
ATOM	268	CA	LEU A	23141.944	-1.537	6.028	1.00	0.00 C
ATOM	269	C	LEU A	23141.337	-1.410	4.634	1.00	0.00 C
ATOM	270	O	LEU A	23140.240	-0.875	4.471	1.00	0.00 O
ATOM	271	CB	LEU A	23141.557	-2.882	6.645	1.00	0.00 C
ATOM	272	CG	LEU A	23142.098	-3.128	8.055	1.00	0.00 C
ATOM	273	CD1	LEU A	23141.202	-4.096	8.810	1.00	0.00 C
ATOM	274	CD2	LEU A	23143.524	-3.655	7.992	1.00	0.00 C
ATOM	275	H	LEU A	23140.732	-0.571	7.470	1.00	0.00 H
ATOM	276	HA	LEU A	23143.019	-1.485	5.944	1.00	0.00 H

ATOM	277	1HB	LEU A	23140.478	-2.940	6.680	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.921	-3.668	6.001	1.00	0.00	H
ATOM	279	HG	LEU A	23142.111	-2.193	8.597	1.00	0.00	H
ATOM	280	1HD1	LEU A	23141.188	-3.833	9.857	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.582	-5.102	8.696	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.200	-4.045	8.411	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.988	-3.331	7.072	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.510	-4.735	8.027	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.086	-3.275	8.832	1.00	0.00	H
ATOM	286	N	ALA A	24142.058	-1.903	3.633	1.00	0.00	N
ATOM	287	CA	ALA A	24141.590	-1.844	2.253	1.00	0.00	C
ATOM	288	C	ALA A	24142.214	-2.954	1.413	1.00	0.00	C
ATOM	289	O	ALA A	24143.288	-3.460	1.736	1.00	0.00	O
ATOM	290	CB	ALA A	24141.899	-0.484	1.649	1.00	0.00	C
ATOM	291	H	ALA A	24142.925	-2.317	3.826	1.00	0.00	H
ATOM	292	HA	ALA A	24140.516	-1.972	2.260	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.554	-0.456	0.626	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.967	-0.314	1.672	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.400	0.286	2.218	1.00	0.00	H
ATOM	296	N	GLU A	25141.533	-3.324	0.334	1.00	0.00	N
ATOM	297	CA	GLU A	25142.020	-4.373	-0.555	1.00	0.00	C
ATOM	298	C	GLU A	25142.225	-3.836	-1.968	1.00	0.00	C
ATOM	299	O	GLU A	25141.550	-2.897	-2.389	1.00	0.00	O
ATOM	300	CB	GLU A	25141.038	-5.547	-0.579	1.00	0.00	C
ATOM	301	CG	GLU A	25141.646	-6.840	-1.098	1.00	0.00	C
ATOM	302	CD	GLU A	25140.882	-7.413	-2.275	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.595	-6.654	-3.225	1.00	0.00	O

ATOM	304	OE2	GLU A	25140.571	-8.623	-2.249	1.00	0.00	O
ATOM	305	H	GLU A	25140.683	-2.883	0.129	1.00	0.00	H
ATOM	306	HA	GLU A	25142.970	-4.718	-0.173	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.679	-5.720	0.424	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.202	-5.287	-1.211	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.662	-6.645	-1.410	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.648	-7.567	-0.300	1.00	0.00	H
ATOM	311	N	VAL A	26143.161	-4.437	-2.696	1.00	0.00	N
ATOM	312	CA	VAL A	26143.455	-4.018	-4.061	1.00	0.00	C
ATOM	313	C	VAL A	26143.055	-5.093	-5.066	1.00	0.00	C
ATOM	314	O	VAL A	26142.914	-6.264	-4.713	1.00	0.00	O
ATOM	315	CB	VAL A	26144.950	-3.695	-4.240	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.204	-3.060	-5.599	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.438	-2.787	-3.121	1.00	0.00	C
ATOM	318	H	VAL A	26143.667	-5.181	-2.305	1.00	0.00	H
ATOM	319	HA	VAL A	26142.887	-3.120	-4.264	1.00	0.00	H
ATOM	320	HB	VAL A	26145.505	-4.620	-4.190	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.324	-3.836	-6.341	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.100	-2.461	-5.555	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.365	-2.435	-5.865	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.069	-1.785	-3.283	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.518	-2.776	-3.111	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.073	-3.155	-2.173	1.00	0.00	H
ATOM	327	N	LYS A	27142.875	-4.688	-6.319	1.00	0.00	N
ATOM	328	CA	LYS A	27142.493	-5.618	-7.375	1.00	0.00	C
ATOM	329	C	LYS A	27143.724	-6.147	-8.106	1.00	0.00	C
ATOM	330	O	LYS A	27143.759	-6.193	-9.335	1.00	0.00	O

ATOM	331	CB	LYS A	27141.548	-4.934	-8.368	1.00	0.00	C
ATOM	332	CG	LYS A	27140.844	-5.904	-9.303	1.00	0.00	C
ATOM	333	CD	LYS A	27139.434	-6.212	-8.828	1.00	0.00	C
ATOM	334	CE	LYS A	27138.434	-5.194	-9.354	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.010	-5.500	-10.748	1.00	0.00	N
ATOM	336	H	LYS A	27143.003	-3.741	-6.539	1.00	0.00	H
ATOM	337	HA	LYS A	27141.977	-6.448	-6.915	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.797	-4.390	-7.816	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.118	-4.238	-8.967	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.793	-5.464	-10.289	1.00	0.00	H
ATOM	341	2HG	LYS A	27141.410	-6.822	-9.345	1.00	0.00	H
ATOM	342	1HD	LYS A	27139.151	-7.193	-9.179	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.416	-6.196	-7.748	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.564	-5.199	-8.714	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.890	-4.215	-9.331	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.487	-6.399	-10.772	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.842	-5.579	-11.365	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.395	-4.743	-11.108	1.00	0.00	H
ATOM	349	N	GLU A	28144.732	-6.549	-7.338	1.00	0.00	N
ATOM	350	CA	GLU A	28145.966	-7.077	-7.909	1.00	0.00	C
ATOM	351	C	GLU A	28145.851	-8.577	-8.152	1.00	0.00	C
ATOM	352	O	GLU A	28144.929	-9.227	-7.660	1.00	0.00	O
ATOM	353	CB	GLU A	28147.146	-6.785	-6.980	1.00	0.00	C
ATOM	354	CG	GLU A	28148.392	-6.309	-7.709	1.00	0.00	C
ATOM	355	CD	GLU A	28148.913	-4.989	-7.176	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.619	-3.941	-7.790	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.615	-5.001	-6.142	1.00	0.00	O

ATOM	358	H	GLU A	28144.645	-6.489	-6.364	1.00	0.00	H
ATOM	359	HA	GLU A	28146.133	-6.581	-8.854	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.852	-6.021	-6.274	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.393	-7.685	-6.438	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.165	-7.054	-7.599	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.156	-6.188	-8.757	1.00	0.00	H
ATOM	364	N	ASN A	29146.795	-9.126	-8.913	1.00	0.00	N
ATOM	365	CA	ASN A	29146.794	-10.553	-9.214	1.00	0.00	C
ATOM	366	C	ASN A	29146.979	-11.378	-7.941	1.00	0.00	C
ATOM	367	O	ASN A	29146.210	-12.304	-7.681	1.00	0.00	O
ATOM	368	CB	ASN A	29147.889	-10.896	-10.230	1.00	0.00	C
ATOM	369	CG	ASN A	29148.012	-9.859	-11.329	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.215	-9.835	-12.268	1.00	0.00	O
ATOM	371	ND2	ASN A	29149.014	-8.995	-11.218	1.00	0.00	N
ATOM	372	H	ASN A	29147.507	-8.559	-9.277	1.00	0.00	H
ATOM	373	HA	ASN A	29145.832	-10.795	-9.643	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.837	-10.967	-9.720	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.660	-11.849	-10.684	1.00	0.00	H
ATOM	376	1HD2	ASN A	29149.610	-9.074	-10.444	1.00	0.00	H
ATOM	377	2HD2	ASN A	29149.117	-8.314	-11.915	1.00	0.00	H
ATOM	378	N	PRO A	30147.999	-11.054	-7.121	1.00	0.00	N
ATOM	379	CA	PRO A	30148.264	-11.772	-5.876	1.00	0.00	C
ATOM	380	C	PRO A	30147.376	-11.290	-4.730	1.00	0.00	C
ATOM	381	O	PRO A	30147.517	-10.160	-4.262	1.00	0.00	O
ATOM	382	CB	PRO A	30149.724	-11.428	-5.596	1.00	0.00	C
ATOM	383	CG	PRO A	30149.894	-10.057	-6.150	1.00	0.00	C
ATOM	384	CD	PRO A	30148.972	-9.962	-7.340	1.00	0.00	C

ATOM	385	HA	PRO A	30148.157	-12.839	-5.999	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.906	-11.452	-4.531	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.368	-12.138	-6.094	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.620	-9.324	-5.406	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.919	-9.911	-6.460	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.477	-9.002	-7.355	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.523	-10.113	-8.254	1.00	0.00	H
ATOM	392	N	PRO A	31146.441	-12.138	-4.263	1.00	0.00	N
ATOM	393	CA	PRO A	31145.531	-11.780	-3.169	1.00	0.00	C
ATOM	394	C	PRO A	31146.277	-11.450	-1.880	1.00	0.00	C
ATOM	395	O	PRO A	31146.937	-12.308	-1.296	1.00	0.00	O
ATOM	396	CB	PRO A	31144.671	-13.035	-2.980	1.00	0.00	C
ATOM	397	CG	PRO A	31144.811	-13.798	-4.253	1.00	0.00	C
ATOM	398	CD	PRO A	31146.194	-13.502	-4.758	1.00	0.00	C
ATOM	399	HA	PRO A	31144.900	-10.945	-3.439	1.00	0.00	H
ATOM	400	1HB	PRO A	31145.039	-13.603	-2.137	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.645	-12.748	-2.805	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.699	-14.855	-4.062	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.072	-13.463	-4.965	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.906	-14.199	-4.342	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.218	-13.531	-5.836	1.00	0.00	H
ATOM	406	N	PHE A	32146.164	-10.200	-1.441	1.00	0.00	N
ATOM	407	CA	PHE A	32146.827	-9.757	-0.220	1.00	0.00	C
ATOM	408	C	PHE A	32145.940	-8.790	0.557	1.00	0.00	C
ATOM	409	O	PHE A	32145.040	-8.167	-0.007	1.00	0.00	O
ATOM	410	CB	PHE A	32148.163	-9.089	-0.551	1.00	0.00	C
ATOM	411	CG	PHE A	32148.042	-7.950	-1.523	1.00	0.00	C

ATOM	412	CD1 PHE A	32148.547	-8.063	-2.809	1.00	0.00	C
ATOM	413	CD2 PHE A	32147.426	-6.766	-1.152	1.00	0.00	C
ATOM	414	CE1 PHE A	32148.439	-7.017	-3.705	1.00	0.00	C
ATOM	415	CE2 PHE A	32147.315	-5.716	-2.044	1.00	0.00	C
ATOM	416	CZ PHE A	32147.821	-5.842	-3.322	1.00	0.00	C
ATOM	417	H PHE A	32145.623	-9.562	-1.950	1.00	0.00	H
ATOM	418	HA PHE A	32147.011	-10.627	0.392	1.00	0.00	H
ATOM	419	1HB PHE A	32148.600	-8.704	0.358	1.00	0.00	H
ATOM	420	2HB PHE A	32148.828	-9.824	-0.980	1.00	0.00	H
ATOM	421	HD1 PHE A	32149.029	-8.982	-3.110	1.00	0.00	H
ATOM	422	HD2 PHE A	32147.030	-6.665	-0.152	1.00	0.00	H
ATOM	423	HE1 PHE A	32148.836	-7.118	-4.705	1.00	0.00	H
ATOM	424	HE2 PHE A	32146.832	-4.799	-1.741	1.00	0.00	H
ATOM	425	HZ PHE A	32147.736	-5.023	-4.021	1.00	0.00	H
ATOM	426	N TYR A	33146.199	-8.668	1.855	1.00	0.00	N
ATOM	427	CA TYR A	33145.424	-7.777	2.709	1.00	0.00	C
ATOM	428	C TYR A	33146.339	-6.867	3.521	1.00	0.00	C
ATOM	429	O TYR A	33147.200	-7.339	4.265	1.00	0.00	O
ATOM	430	CB TYR A	33144.528	-8.588	3.648	1.00	0.00	C
ATOM	431	CG TYR A	33143.314	-9.178	2.966	1.00	0.00	C
ATOM	432	CD1 TYR A	33143.134	-10.554	2.895	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.348	-8.360	2.394	1.00	0.00	C
ATOM	434	CE1 TYR A	33142.027	-11.098	2.272	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.237	-8.896	1.771	1.00	0.00	C
ATOM	436	CZ TYR A	33141.081	-10.264	1.712	1.00	0.00	C
ATOM	437	OH TYR A	33139.977	-10.802	1.092	1.00	0.00	O
ATOM	438	H TYR A	33146.930	-9.191	2.248	1.00	0.00	H

ATOM	439	HA	TYR A	33144.802	-7.166	2.073	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.101	-9.402	4.067	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.182	-7.948	4.446	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.877	-11.204	3.334	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.473	-7.288	2.441	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.904	-12.169	2.228	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.497	-8.243	1.333	1.00	0.00	H
ATOM	446	HH	TYR A	33139.667	-11.561	1.592	1.00	0.00	H
ATOM	447	N	GLY A	34146.148	-5.560	3.375	1.00	0.00	N
ATOM	448	CA	GLY A	34146.963	-4.604	4.101	1.00	0.00	C
ATOM	449	C	GLY A	34146.180	-3.374	4.517	1.00	0.00	C
ATOM	450	O	GLY A	34145.129	-3.077	3.950	1.00	0.00	O
ATOM	451	H	GLY A	34145.447	-5.242	2.768	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.358	-5.083	4.984	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.786	-4.298	3.471	1.00	0.00	H
ATOM	454	N	VAL A	35146.694	-2.658	5.512	1.00	0.00	N
ATOM	455	CA	VAL A	35146.036	-1.453	6.005	1.00	0.00	C
ATOM	456	C	VAL A	35146.677	-0.199	5.420	1.00	0.00	C
ATOM	457	O	VAL A	35147.885	-0.161	5.182	1.00	0.00	O
ATOM	458	CB	VAL A	35146.084	-1.378	7.544	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.523	-1.325	8.035	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.296	-0.177	8.047	1.00	0.00	C
ATOM	461	H	VAL A	35147.535	-2.946	5.924	1.00	0.00	H
ATOM	462	HA	VAL A	35145.001	-1.492	5.699	1.00	0.00	H
ATOM	463	HB	VAL A	35145.627	-2.272	7.942	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.534	-1.273	9.114	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.011	-0.451	7.628	1.00	0.00	H

ATOM	466	3HG1 VAL A	35148.047	-2.212	7.712	1.00	0.00	H
ATOM	467	1HG2 VAL A	35144.244	-0.331	7.857	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.629	0.712	7.532	1.00	0.00	H
ATOM	469	3HG2 VAL A	35145.457	-0.060	9.108	1.00	0.00	H
ATOM	470	N ILE A	36145.862	0.825	5.193	1.00	0.00	N
ATOM	471	CA ILE A	36146.350	2.082	4.638	1.00	0.00	C
ATOM	472	C ILE A	36147.313	2.767	5.602	1.00	0.00	C
ATOM	473	O ILE A	36147.068	2.821	6.807	1.00	0.00	O
ATOM	474	CB ILE A	36145.190	3.044	4.313	1.00	0.00	C
ATOM	475	CG1 ILE A	36144.139	2.340	3.452	1.00	0.00	C
ATOM	476	CG2 ILE A	36145.713	4.288	3.611	1.00	0.00	C
ATOM	477	CD1 ILE A	36142.949	3.213	3.118	1.00	0.00	C
ATOM	478	H ILE A	36144.910	0.734	5.405	1.00	0.00	H
ATOM	479	HA ILE A	36146.874	1.859	3.719	1.00	0.00	H
ATOM	480	HB ILE A	36144.736	3.350	5.244	1.00	0.00	H
ATOM	481	1HG1 ILE A	36144.594	2.031	2.523	1.00	0.00	H
ATOM	482	2HG1 ILE A	36143.776	1.469	3.977	1.00	0.00	H
ATOM	483	1HG2 ILE A	36146.653	4.061	3.129	1.00	0.00	H
ATOM	484	2HG2 ILE A	36145.860	5.076	4.334	1.00	0.00	H
ATOM	485	3HG2 ILE A	36144.997	4.611	2.868	1.00	0.00	H
ATOM	486	1HD1 ILE A	36142.382	2.758	2.319	1.00	0.00	H
ATOM	487	2HD1 ILE A	36143.294	4.187	2.803	1.00	0.00	H
ATOM	488	3HD1 ILE A	36142.323	3.317	3.990	1.00	0.00	H
ATOM	489	N ARG A	37148.411	3.289	5.063	1.00	0.00	N
ATOM	490	CA ARG A	37149.412	3.968	5.877	1.00	0.00	C
ATOM	491	C ARG A	37149.575	5.422	5.441	1.00	0.00	C
ATOM	492	O ARG A	37149.318	6.343	6.216	1.00	0.00	O

ATOM	493	CB	ARG A	37150.755	3.242	5.782	1.00	0.00	C
ATOM	494	CG	ARG A	37150.663	1.754	6.073	1.00	0.00	C
ATOM	495	CD	ARG A	37150.046	1.488	7.437	1.00	0.00	C
ATOM	496	NE	ARG A	37150.848	2.053	8.519	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.641	1.792	9.808	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.661	0.977	10.179	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.417	2.348	10.729	1.00	0.00	N
ATOM	500	H	ARG A	37148.552	3.212	4.097	1.00	0.00	H
ATOM	501	HA	ARG A	37149.075	3.949	6.902	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.150	3.369	4.784	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.440	3.684	6.490	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.052	1.285	5.316	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.656	1.329	6.049	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.061	1.930	7.463	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.965	0.421	7.580	1.00	0.00	H
ATOM	508	HE	ARG A	37151.578	2.659	8.273	1.00	0.00	H
ATOM	509	1HH1	ARG A	37149.073	0.554	9.490	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.512	0.785	11.149	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.157	2.962	10.456	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.262	2.152	11.698	1.00	0.00	H
ATOM	513	N	TRP A	38150.001	5.619	4.198	1.00	0.00	N
ATOM	514	CA	TRP A	38150.198	6.962	3.664	1.00	0.00	C
ATOM	515	C	TRP A	38149.459	7.137	2.339	1.00	0.00	C
ATOM	516	O	TRP A	38149.536	6.285	1.455	1.00	0.00	O
ATOM	517	CB	TRP A	38151.692	7.247	3.473	1.00	0.00	C
ATOM	518	CG	TRP A	38151.968	8.508	2.707	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.160	9.758	3.223	1.00	0.00	C

ATOM	520	CD2 TRP A	38152.077	8.639	1.285	1.00	0.00 C
ATOM	521	NE1 TRP A	38152.382	10.658	2.208	1.00	0.00 N
ATOM	522	CE2 TRP A	38152.337	9.996	1.009	1.00	0.00 C
ATOM	523	CE3 TRP A	38151.983	7.742	0.218	1.00	0.00 C
ATOM	524	CZ2 TRP A	38152.501	10.473	-0.289	1.00	0.00 C
ATOM	525	CZ3 TRP A	38152.148	8.217	-1.070	1.00	0.00 C
ATOM	526	CH2 TRP A	38152.403	9.572	-1.315	1.00	0.00 C
ATOM	527	H TRP A	38150.190	4.845	3.628	1.00	0.00 H
ATOM	528	HA TRP A	38149.797	7.665	4.379	1.00	0.00 H
ATOM	529	1HB TRP A	38152.160	7.337	4.441	1.00	0.00 H
ATOM	530	2HB TRP A	38152.142	6.424	2.936	1.00	0.00 H
ATOM	531	HD1 TRP A	38152.136	9.991	4.277	1.00	0.00 H
ATOM	532	HE1 TRP A	38152.546	11.617	2.324	1.00	0.00 H
ATOM	533	HE3 TRP A	38151.785	6.695	0.385	1.00	0.00 H
ATOM	534	HZ2 TRP A	38152.696	11.515	-0.494	1.00	0.00 H
ATOM	535	HZ3 TRP A	38152.076	7.538	-1.906	1.00	0.00 H
ATOM	536	HH2 TRP A	38152.525	9.899	-2.337	1.00	0.00 H
ATOM	537	N ILE A	39148.753	8.255	2.210	1.00	0.00 N
ATOM	538	CA ILE A	39148.007	8.556	0.995	1.00	0.00 C
ATOM	539	C ILE A	39148.396	9.927	0.453	1.00	0.00 C
ATOM	540	O ILE A	39148.014	10.955	1.011	1.00	0.00 O
ATOM	541	CB ILE A	39146.487	8.525	1.243	1.00	0.00 C
ATOM	542	CG1 ILE A	39146.096	7.246	1.986	1.00	0.00 C
ATOM	543	CG2 ILE A	39145.733	8.631	-0.074	1.00	0.00 C
ATOM	544	CD1 ILE A	39144.679	7.267	2.520	1.00	0.00 C
ATOM	545	H ILE A	39148.738	8.898	2.950	1.00	0.00 H
ATOM	546	HA ILE A	39148.249	7.804	0.258	1.00	0.00 H

ATOM	547	HB	ILE A	39146.225	9.378	1.849	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.184	6.405	1.314	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.764	7.105	2.823	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.792	8.107	0.007	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.324	8.190	-0.864	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.549	9.671	-0.300	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.027	6.753	1.829	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.352	8.290	2.632	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.649	6.772	3.479	1.00	0.00	H
ATOM	556	N	GLY A	40149.164	9.936	-0.631	1.00	0.00	N
ATOM	557	CA	GLY A	40149.595	11.190	-1.219	1.00	0.00	C
ATOM	558	C	GLY A	40150.136	11.024	-2.625	1.00	0.00	C
ATOM	559	O	GLY A	40149.994	9.963	-3.233	1.00	0.00	O
ATOM	560	H	GLY A	40149.442	9.086	-1.033	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.757	11.869	-1.246	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.366	11.617	-0.597	1.00	0.00	H
ATOM	563	N	GLN A	41150.756	12.080	-3.140	1.00	0.00	N
ATOM	564	CA	GLN A	41151.322	12.057	-4.482	1.00	0.00	C
ATOM	565	C	GLN A	41152.790	12.482	-4.457	1.00	0.00	C
ATOM	566	O	GLN A	41153.104	13.628	-4.136	1.00	0.00	O
ATOM	567	CB	GLN A	41150.525	12.986	-5.399	1.00	0.00	C
ATOM	568	CG	GLN A	41149.022	12.773	-5.320	1.00	0.00	C
ATOM	569	CD	GLN A	41148.247	14.074	-5.380	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.194	14.824	-4.405	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.642	14.349	-6.529	1.00	0.00	N
ATOM	572	H	GLN A	41150.834	12.896	-2.605	1.00	0.00	H
ATOM	573	HA	GLN A	41151.253	11.048	-4.858	1.00	0.00	H

ATOM	574	1HB	GLN A	41150.738	14.008	-5.127	1.00	0.00 H
ATOM	575	2HB	GLN A	41150.838	12.821	-6.419	1.00	0.00 H
ATOM	576	1HG	GLN A	41148.714	12.152	-6.147	1.00	0.00 H
ATOM	577	2HG	GLN A	41148.790	12.275	-4.390	1.00	0.00 H
ATOM	578	1HE2	GLN A	41147.727	13.706	-7.262	1.00	0.00 H
ATOM	579	2HE2	GLN A	41147.135	15.185	-6.596	1.00	0.00 H
ATOM	580	N	PRO A	42153.713	11.563	-4.793	1.00	0.00 N
ATOM	581	CA	PRO A	42155.152	11.857	-4.801	1.00	0.00 C
ATOM	582	C	PRO A	42155.499	13.021	-5.723	1.00	0.00 C
ATOM	583	O	PRO A	42154.732	13.362	-6.624	1.00	0.00 O
ATOM	584	CB	PRO A	42155.784	10.560	-5.316	1.00	0.00 C
ATOM	585	CG	PRO A	42154.773	9.505	-5.034	1.00	0.00 C
ATOM	586	CD	PRO A	42153.437	10.171	-5.187	1.00	0.00 C
ATOM	587	HA	PRO A	42155.516	12.068	-3.806	1.00	0.00 H
ATOM	588	1HB	PRO A	42155.979	10.649	-6.375	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.708	10.372	-4.789	1.00	0.00 H
ATOM	590	1HG	PRO A	42154.873	8.697	-5.744	1.00	0.00 H
ATOM	591	2HG	PRO A	42154.895	9.138	-4.025	1.00	0.00 H
ATOM	592	1HD	PRO A	42153.104	10.119	-6.214	1.00	0.00 H
ATOM	593	2HD	PRO A	42152.710	9.720	-4.527	1.00	0.00 H
ATOM	594	N	PRO A	43156.668	13.649	-5.510	1.00	0.00 N
ATOM	595	CA	PRO A	43157.117	14.780	-6.327	1.00	0.00 C
ATOM	596	C	PRO A	43157.535	14.350	-7.728	1.00	0.00 C
ATOM	597	O	PRO A	43158.705	14.060	-7.976	1.00	0.00 O
ATOM	598	CB	PRO A	43158.320	15.319	-5.555	1.00	0.00 C
ATOM	599	CG	PRO A	43158.841	14.148	-4.797	1.00	0.00 C
ATOM	600	CD	PRO A	43157.643	13.304	-4.457	1.00	0.00 C

ATOM	601	HA	PRO A	43156.356	15.543	-6.397	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.054	15.699	-6.251	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.002	16.109	-4.892	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.531	13.589	-5.413	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.330	14.483	-3.894	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.897	12.255	-4.497	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.262	13.565	-3.481	1.00	0.00	H
ATOM	608	N	GLY A	44156.571	14.311	-8.641	1.00	0.00	N
ATOM	609	CA	GLY A	44156.860	13.916	-10.006	1.00	0.00	C
ATOM	610	C	GLY A	44155.636	13.399	-10.732	1.00	0.00	C
ATOM	611	O	GLY A	44155.325	13.848	-11.835	1.00	0.00	O
ATOM	612	H	GLY A	44155.656	14.552	-8.386	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.249	14.768	-10.541	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.611	13.139	-9.992	1.00	0.00	H
ATOM	615	N	LEU A	45154.938	12.453	-10.114	1.00	0.00	N
ATOM	616	CA	LEU A	45153.739	11.876	-10.710	1.00	0.00	C
ATOM	617	C	LEU A	45152.532	12.079	-9.803	1.00	0.00	C
ATOM	618	O	LEU A	45152.455	11.497	-8.721	1.00	0.00	O
ATOM	619	CB	LEU A	45153.945	10.384	-10.980	1.00	0.00	C
ATOM	620	CG	LEU A	45154.507	9.584	-9.802	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.156	8.109	-9.940	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.015	9.772	-9.700	1.00	0.00	C
ATOM	623	H	LEU A	45155.235	12.136	-9.233	1.00	0.00	H
ATOM	624	HA	LEU A	45153.560	12.381	-11.648	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.993	9.956	-11.260	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.626	10.281	-11.812	1.00	0.00	H
ATOM	627	HG	LEU A	45154.061	9.948	-8.886	1.00	0.00	H

ATOM	628	1HD1	LEU A	45153.472	7.828	-9.154	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.055	7.515	-9.864	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.691	7.936	-10.900	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.323	10.583	-10.343	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.513	8.863	-10.005	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.280	10.002	-8.679	1.00	0.00	H
ATOM	634	N	ASN A	46151.592	12.907	-10.245	1.00	0.00	N
ATOM	635	CA	ASN A	46150.393	13.174	-9.461	1.00	0.00	C
ATOM	636	C	ASN A	46149.458	11.971	-9.487	1.00	0.00	C
ATOM	637	O	ASN A	46148.826	11.684	-10.504	1.00	0.00	O
ATOM	638	CB	ASN A	46149.672	14.410	-10.001	1.00	0.00	C
ATOM	639	CG	ASN A	46148.921	15.162	-8.920	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.695	15.271	-8.962	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.655	15.686	-7.946	1.00	0.00	N
ATOM	642	H	ASN A	46151.705	13.344	-11.114	1.00	0.00	H
ATOM	643	HA	ASN A	46150.696	13.360	-8.440	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.398	15.079	-10.441	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.966	14.104	-10.759	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.626	15.560	-7.978	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.195	16.177	-7.233	1.00	0.00	H
ATOM	648	N	GLU A	47149.375	11.273	-8.360	1.00	0.00	N
ATOM	649	CA	GLU A	47148.517	10.100	-8.245	1.00	0.00	C
ATOM	650	C	GLU A	47148.358	9.687	-6.788	1.00	0.00	C
ATOM	651	O	GLU A	47149.340	9.386	-6.109	1.00	0.00	O
ATOM	652	CB	GLU A	47149.090	8.936	-9.059	1.00	0.00	C
ATOM	653	CG	GLU A	47150.606	8.836	-9.007	1.00	0.00	C
ATOM	654	CD	GLU A	47151.170	7.964	-10.111	1.00	0.00	C

ATOM	655	OE1	GLU A	47151.265	8.447	-11.259	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.518	6.798	-9.829	1.00	0.00	O
ATOM	657	H	GLU A	47149.904	11.554	-7.586	1.00	0.00	H
ATOM	658	HA	GLU A	47147.546	10.361	-8.641	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.677	8.012	-8.681	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.794	9.054	-10.092	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.022	9.826	-9.104	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.895	8.417	-8.054	1.00	0.00	H
ATOM	663	N	VAL A	48147.119	9.669	-6.309	1.00	0.00	N
ATOM	664	CA	VAL A	48146.847	9.284	-4.931	1.00	0.00	C
ATOM	665	C	VAL A	48147.245	7.832	-4.688	1.00	0.00	C
ATOM	666	O	VAL A	48146.514	6.909	-5.044	1.00	0.00	O
ATOM	667	CB	VAL A	48145.358	9.463	-4.578	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.132	9.251	-3.089	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.870	10.838	-5.008	1.00	0.00	C
ATOM	670	H	VAL A	48146.374	9.913	-6.896	1.00	0.00	H
ATOM	671	HA	VAL A	48147.431	9.921	-4.283	1.00	0.00	H
ATOM	672	HB	VAL A	48144.790	8.718	-5.116	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.196	8.197	-2.862	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.155	9.619	-2.817	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.887	9.785	-2.531	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.583	11.587	-4.697	1.00	0.00	H
ATOM	677	2HG2	VAL A	48143.913	11.039	-4.551	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.768	10.863	-6.084	1.00	0.00	H
ATOM	679	N	LEU A	49148.412	7.639	-4.082	1.00	0.00	N
ATOM	680	CA	LEU A	49148.909	6.298	-3.795	1.00	0.00	C
ATOM	681	C	LEU A	49148.806	5.992	-2.307	1.00	0.00	C

ATOM	682	O	LEU A	49149.482	6.612	-1.487	1.00	0.00	O
ATOM	683	CB	LEU A	49150.361	6.161	-4.258	1.00	0.00	C
ATOM	684	CG	LEU A	49150.589	6.388	-5.753	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.051	6.701	-6.028	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.143	5.171	-6.550	1.00	0.00	C
ATOM	687	H	LEU A	49148.952	8.414	-3.822	1.00	0.00	H
ATOM	688	HA	LEU A	49148.297	5.595	-4.340	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.960	6.873	-3.710	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.701	5.165	-4.012	1.00	0.00	H
ATOM	691	HG	LEU A	49150.000	7.234	-6.075	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.506	7.107	-5.136	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.121	7.424	-6.827	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.566	5.796	-6.314	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.286	4.281	-5.957	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.729	5.100	-7.455	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.098	5.270	-6.805	1.00	0.00	H
ATOM	698	N	ALA A	50147.955	5.032	-1.965	1.00	0.00	N
ATOM	699	CA	ALA A	50147.766	4.646	-0.575	1.00	0.00	C
ATOM	700	C	ALA A	50148.688	3.492	-0.197	1.00	0.00	C
ATOM	701	O	ALA A	50148.560	2.385	-0.721	1.00	0.00	O
ATOM	702	CB	ALA A	50146.314	4.271	-0.323	1.00	0.00	C
ATOM	703	H	ALA A	50147.443	4.573	-2.664	1.00	0.00	H
ATOM	704	HA	ALA A	50148.005	5.502	0.040	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.677	4.830	-0.991	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.055	4.501	0.700	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.180	3.214	-0.499	1.00	0.00	H
ATOM	708	N	GLY A	51149.617	3.758	0.715	1.00	0.00	N

ATOM	709	CA	GLY A	51150.547	2.730	1.147	1.00	0.00	C
ATOM	710	C	GLY A	51149.894	1.695	2.041	1.00	0.00	C
ATOM	711	O	GLY A	51149.642	1.952	3.217	1.00	0.00	O
ATOM	712	H	GLY A	51149.673	4.658	1.099	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.950	2.235	0.276	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.357	3.197	1.688	1.00	0.00	H
ATOM	715	N	LEU A	52149.620	0.522	1.481	1.00	0.00	N
ATOM	716	CA	LEU A	52148.992	-0.557	2.237	1.00	0.00	C
ATOM	717	C	LEU A	52150.042	-1.428	2.917	1.00	0.00	C
ATOM	718	O	LEU A	52151.004	-1.867	2.284	1.00	0.00	O
ATOM	719	CB	LEU A	52148.119	-1.412	1.316	1.00	0.00	C
ATOM	720	CG	LEU A	52146.962	-0.670	0.645	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.299	-1.550	-0.403	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.948	-0.218	1.685	1.00	0.00	C
ATOM	723	H	LEU A	52149.846	0.377	0.539	1.00	0.00	H
ATOM	724	HA	LEU A	52148.367	-0.108	2.995	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.750	-1.828	0.543	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.708	-2.224	1.897	1.00	0.00	H
ATOM	727	HG	LEU A	52147.347	0.209	0.147	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.535	-2.153	0.066	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.040	-2.194	-0.852	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.851	-0.929	-1.164	1.00	0.00	H
ATOM	731	1HD2	LEU A	52144.961	-0.209	1.245	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.198	0.776	2.025	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.962	-0.899	2.523	1.00	0.00	H
ATOM	734	N	GLU A	53149.852	-1.676	4.208	1.00	0.00	N
ATOM	735	CA	GLU A	53150.784	-2.496	4.974	1.00	0.00	C

ATOM	736	C	GLU A	53150.285	-3.933	5.078	1.00	0.00	C
ATOM	737	O	GLU A	53149.303	-4.212	5.765	1.00	0.00	O
ATOM	738	CB	GLU A	53150.979	-1.910	6.374	1.00	0.00	C
ATOM	739	CG	GLU A	53151.968	-2.688	7.226	1.00	0.00	C
ATOM	740	CD	GLU A	53151.516	-2.822	8.667	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.666	-2.016	9.100	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.011	-3.734	9.363	1.00	0.00	O
ATOM	743	H	GLU A	53149.067	-1.298	4.657	1.00	0.00	H
ATOM	744	HA	GLU A	53151.731	-2.492	4.457	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.339	-0.896	6.280	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.027	-1.899	6.884	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.084	-3.678	6.809	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.920	-2.177	7.209	1.00	0.00	H
ATOM	749	N	LEU A	54150.969	-4.842	4.392	1.00	0.00	N
ATOM	750	CA	LEU A	54150.595	-6.252	4.406	1.00	0.00	C
ATOM	751	C	LEU A	54150.871	-6.873	5.772	1.00	0.00	C
ATOM	752	O	LEU A	54151.878	-6.569	6.412	1.00	0.00	O
ATOM	753	CB	LEU A	54151.358	-7.014	3.322	1.00	0.00	C
ATOM	754	CG	LEU A	54151.330	-6.371	1.935	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.538	-6.804	1.120	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.040	-6.724	1.210	1.00	0.00	C
ATOM	757	H	LEU A	54151.744	-4.559	3.863	1.00	0.00	H
ATOM	758	HA	LEU A	54149.537	-6.317	4.202	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.389	-7.106	3.633	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.935	-8.005	3.243	1.00	0.00	H
ATOM	761	HG	LEU A	54151.369	-5.296	2.044	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.298	-7.701	0.569	1.00	0.00	H

ATOM	763	2HD1	LEU A	54153.367	-7.000	1.783	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.807	-6.018	0.429	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.219	-7.555	0.543	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.701	-5.872	0.640	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.284	-6.998	1.932	1.00	0.00	H
ATOM	768	N	GLU A	55149.969	-7.744	6.213	1.00	0.00	N
ATOM	769	CA	GLU A	55150.115	-8.408	7.502	1.00	0.00	C
ATOM	770	C	GLU A	55151.256	-9.421	7.467	1.00	0.00	C
ATOM	771	O	GLU A	55151.917	-9.662	8.478	1.00	0.00	O
ATOM	772	CB	GLU A	55148.811	-9.106	7.891	1.00	0.00	C
ATOM	773	CG	GLU A	55147.605	-8.182	7.893	1.00	0.00	C
ATOM	774	CD	GLU A	55147.676	-7.132	8.984	1.00	0.00	C
ATOM	775	OE1	GLU A	55148.644	-6.343	8.985	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.764	-7.098	9.837	1.00	0.00	O
ATOM	777	H	GLU A	55149.187	-7.945	5.658	1.00	0.00	H
ATOM	778	HA	GLU A	55150.343	-7.653	8.240	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.623	-9.908	7.193	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.920	-9.522	8.882	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.547	-7.682	6.937	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.713	-8.775	8.042	1.00	0.00	H
ATOM	783	N	ASP A	56151.481	-10.011	6.299	1.00	0.00	N
ATOM	784	CA	ASP A	56152.542	-10.999	6.133	1.00	0.00	C
ATOM	785	C	ASP A	56153.771	-10.371	5.482	1.00	0.00	C
ATOM	786	O	ASP A	56153.657	-9.601	4.530	1.00	0.00	O
ATOM	787	CB	ASP A	56152.046	-12.173	5.287	1.00	0.00	C
ATOM	788	CG	ASP A	56150.859	-12.877	5.915	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.718	-12.411	5.716	1.00	0.00	O

ATOM	790	OD2	ASP A	56151.072	-13.896	6.606	1.00	0.00	O
ATOM	791	H	ASP A	56150.920	-9.778	5.530	1.00	0.00	H
ATOM	792	HA	ASP A	56152.813	-11.361	7.112	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.752	-11.809	4.314	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.847	-12.889	5.172	1.00	0.00	H
ATOM	795	N	GLU A	57154.946	-10.710	6.003	1.00	0.00	N
ATOM	796	CA	GLU A	57156.197	-10.180	5.472	1.00	0.00	C
ATOM	797	C	GLU A	57156.579	-10.884	4.174	1.00	0.00	C
ATOM	798	O	GLU A	57157.219	-11.935	4.192	1.00	0.00	O
ATOM	799	CB	GLU A	57157.319	-10.339	6.501	1.00	0.00	C
ATOM	800	CG	GLU A	57157.144	-9.464	7.732	1.00	0.00	C
ATOM	801	CD	GLU A	57158.307	-9.580	8.697	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.104	-9.322	9.903	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.419	-9.929	8.250	1.00	0.00	O
ATOM	804	H	GLU A	57154.973	-11.329	6.762	1.00	0.00	H
ATOM	805	HA	GLU A	57156.053	-9.129	5.270	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.356	-11.370	6.820	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.258	-10.083	6.034	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.059	-8.435	7.417	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.240	-9.760	8.242	1.00	0.00	H
ATOM	810	N	CYS A	58156.180	-10.298	3.050	1.00	0.00	N
ATOM	811	CA	CYS A	58156.480	-10.869	1.743	1.00	0.00	C
ATOM	812	C	CYS A	58157.720	-10.220	1.137	1.00	0.00	C
ATOM	813	O	CYS A	58157.783	-9.000	0.984	1.00	0.00	O
ATOM	814	CB	CYS A	58155.287	-10.694	0.801	1.00	0.00	C
ATOM	815	SG	CYS A	58155.023	-12.087	-0.321	1.00	0.00	S
ATOM	816	H	CYS A	58155.672	-9.462	3.102	1.00	0.00	H

ATOM	817	HA	CYS A	58156.669	-11.923	1.877	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.390	-10.572	1.388	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.439	-9.811	0.199	1.00	0.00	H
ATOM	820	HG	CYS A	58155.638	-11.999	-1.053	1.00	0.00	H
ATOM	821	N	ALA A	59158.705	-11.043	0.793	1.00	0.00	N
ATOM	822	CA	ALA A	59159.943	-10.550	0.204	1.00	0.00	C
ATOM	823	C	ALA A	59159.673	-9.817	-1.106	1.00	0.00	C
ATOM	824	O	ALA A	59159.065	-10.366	-2.023	1.00	0.00	O
ATOM	825	CB	ALA A	59160.914	-11.699	-0.023	1.00	0.00	C
ATOM	826	H	ALA A	59158.596	-12.007	0.939	1.00	0.00	H
ATOM	827	HA	ALA A	59160.394	-9.862	0.904	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.882	-11.305	-0.291	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.547	-12.328	-0.821	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.000	-12.281	0.882	1.00	0.00	H
ATOM	831	N	GLY A	60160.131	-8.571	-1.185	1.00	0.00	N
ATOM	832	CA	GLY A	60159.930	-7.782	-2.386	1.00	0.00	C
ATOM	833	C	GLY A	60159.482	-6.366	-2.081	1.00	0.00	C
ATOM	834	O	GLY A	60159.770	-5.441	-2.841	1.00	0.00	O
ATOM	835	H	GLY A	60160.610	-8.184	-0.422	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.857	-7.744	-2.938	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.179	-8.262	-2.997	1.00	0.00	H
ATOM	838	N	CYS A	61158.776	-6.197	-0.969	1.00	0.00	N
ATOM	839	CA	CYS A	61158.287	-4.884	-0.566	1.00	0.00	C
ATOM	840	C	CYS A	61159.295	-4.182	0.338	1.00	0.00	C
ATOM	841	O	CYS A	61160.328	-4.750	0.692	1.00	0.00	O
ATOM	842	CB	CYS A	61156.944	-5.014	0.154	1.00	0.00	C
ATOM	843	SG	CYS A	61155.715	-5.985	-0.749	1.00	0.00	S

ATOM	844	H	CYS A	61158.578	-6.973	-0.405	1.00	0.00	H
ATOM	845	HA	CYS A	61158.151	-4.292	-1.460	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.101	-5.492	1.109	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.533	-4.028	0.313	1.00	0.00	H
ATOM	848	HG	CYS A	61156.157	-6.409	-1.489	1.00	0.00	H
ATOM	849	N	THR A	62158.989	-2.942	0.708	1.00	0.00	N
ATOM	850	CA	THR A	62159.869	-2.162	1.571	1.00	0.00	C
ATOM	851	C	THR A	62159.294	-2.056	2.979	1.00	0.00	C
ATOM	852	O	THR A	62158.319	-2.728	3.315	1.00	0.00	O
ATOM	853	CB	THR A	62160.082	-0.764	0.987	1.00	0.00	C
ATOM	854	OG1	THR A	62158.912	0.020	1.126	1.00	0.00	O
ATOM	855	CG2	THR A	62160.453	-0.778	-0.480	1.00	0.00	C
ATOM	856	H	THR A	62158.152	-2.542	0.392	1.00	0.00	H
ATOM	857	HA	THR A	62160.820	-2.671	1.620	1.00	0.00	H
ATOM	858	HB	THR A	62160.883	-0.280	1.527	1.00	0.00	H
ATOM	859	HG1	THR A	62158.171	-0.431	0.713	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.140	-1.591	-0.670	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.923	0.157	-0.741	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.563	-0.914	-1.076	1.00	0.00	H
ATOM	863	N	ASP A	63159.903	-1.205	3.799	1.00	0.00	N
ATOM	864	CA	ASP A	63159.452	-1.010	5.172	1.00	0.00	C
ATOM	865	C	ASP A	63158.724	0.321	5.321	1.00	0.00	C
ATOM	866	O	ASP A	63158.778	0.956	6.375	1.00	0.00	O
ATOM	867	CB	ASP A	63160.640	-1.066	6.134	1.00	0.00	C
ATOM	868	CG	ASP A	63161.735	-0.087	5.758	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.819	-0.542	5.339	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.507	1.135	5.882	1.00	0.00	O

ATOM	871	H	ASP A	63160.675	-0.697	3.472	1.00	0.00	H
ATOM	872	HA	ASP A	63158.767	-1.810	5.412	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.299	-0.830	7.131	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.055	-2.063	6.126	1.00	0.00	H
ATOM	875	N	GLY A	64158.042	0.739	4.259	1.00	0.00	N
ATOM	876	CA	GLY A	64157.313	1.993	4.292	1.00	0.00	C
ATOM	877	C	GLY A	64157.989	3.080	3.479	1.00	0.00	C
ATOM	878	O	GLY A	64157.932	4.257	3.834	1.00	0.00	O
ATOM	879	H	GLY A	64158.035	0.191	3.446	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.320	1.829	3.899	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.232	2.323	5.317	1.00	0.00	H
ATOM	882	N	THR A	65158.632	2.684	2.386	1.00	0.00	N
ATOM	883	CA	THR A	65159.323	3.632	1.520	1.00	0.00	C
ATOM	884	C	THR A	65158.901	3.449	0.066	1.00	0.00	C
ATOM	885	O	THR A	65158.941	2.340	-0.468	1.00	0.00	O
ATOM	886	CB	THR A	65160.838	3.462	1.649	1.00	0.00	C
ATOM	887	OG1	THR A	65161.238	2.179	1.200	1.00	0.00	O
ATOM	888	CG2	THR A	65161.341	3.629	3.066	1.00	0.00	C
ATOM	889	H	THR A	65158.642	1.731	2.156	1.00	0.00	H
ATOM	890	HA	THR A	65159.054	4.628	1.838	1.00	0.00	H
ATOM	891	HB	THR A	65161.327	4.204	1.034	1.00	0.00	H
ATOM	892	HG1	THR A	65160.989	2.069	0.279	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.251	4.211	3.058	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.536	2.659	3.496	1.00	0.00	H
ATOM	895	3HG2	THR A	65160.594	4.140	3.656	1.00	0.00	H
ATOM	896	N	PHE A	66158.496	4.543	-0.570	1.00	0.00	N
ATOM	897	CA	PHE A	66158.066	4.504	-1.963	1.00	0.00	C

ATOM	898	C	PHE A	66159.056	5.241	-2.859	1.00	0.00 C
ATOM	899	O	PHE A	66159.184	6.463	-2.785	1.00	0.00 O
ATOM	900	CB	PHE A	66156.674	5.121	-2.107	1.00	0.00 C
ATOM	901	CG	PHE A	66156.062	4.914	-3.462	1.00	0.00 C
ATOM	902	CD1	PHE A	66155.962	3.642	-4.005	1.00	0.00 C
ATOM	903	CD2	PHE A	66155.588	5.989	-4.195	1.00	0.00 C
ATOM	904	CE1	PHE A	66155.399	3.448	-5.252	1.00	0.00 C
ATOM	905	CE2	PHE A	66155.025	5.802	-5.443	1.00	0.00 C
ATOM	906	CZ	PHE A	66154.931	4.530	-5.972	1.00	0.00 C
ATOM	907	H	PHE A	66158.487	5.398	-0.090	1.00	0.00 H
ATOM	908	HA	PHE A	66158.025	3.469	-2.268	1.00	0.00 H
ATOM	909	1HB	PHE A	66156.015	4.679	-1.374	1.00	0.00 H
ATOM	910	2HB	PHE A	66156.739	6.185	-1.929	1.00	0.00 H
ATOM	911	HD1	PHE A	66156.328	2.796	-3.442	1.00	0.00 H
ATOM	912	HD2	PHE A	66155.662	6.985	-3.783	1.00	0.00 H
ATOM	913	HE1	PHE A	66155.328	2.452	-5.663	1.00	0.00 H
ATOM	914	HE2	PHE A	66154.659	6.649	-6.004	1.00	0.00 H
ATOM	915	HZ	PHE A	66154.491	4.381	-6.948	1.00	0.00 H
ATOM	916	N	ARG A	67159.755	4.490	-3.704	1.00	0.00 N
ATOM	917	CA	ARG A	67160.734	5.073	-4.613	1.00	0.00 C
ATOM	918	C	ARG A	67161.838	5.788	-3.841	1.00	0.00 C
ATOM	919	O	ARG A	67162.346	6.820	-4.278	1.00	0.00 O
ATOM	920	CB	ARG A	67160.052	6.049	-5.573	1.00	0.00 C
ATOM	921	CG	ARG A	67158.792	5.490	-6.216	1.00	0.00 C
ATOM	922	CD	ARG A	67158.603	6.025	-7.627	1.00	0.00 C
ATOM	923	NE	ARG A	67159.699	5.635	-8.512	1.00	0.00 N
ATOM	924	CZ	ARG A	67159.811	4.430	-9.066	1.00	0.00 C

ATOM	925	NH1	ARG A	67158.898	3.496	-8.831	1.00	0.00	N
ATOM	926	NH2	ARG A	67160.839	4.160	-9.859	1.00	0.00	N
ATOM	927	H	ARG A	67159.609	3.521	-3.715	1.00	0.00	H
ATOM	928	HA	ARG A	67161.175	4.269	-5.185	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.786	6.944	-5.030	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.746	6.309	-6.359	1.00	0.00	H
ATOM	931	1HG	ARG A	67158.868	4.414	-6.257	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.939	5.771	-5.616	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.677	5.636	-8.024	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.551	7.103	-7.585	1.00	0.00	H
ATOM	935	HE	ARG A	67160.387	6.307	-8.702	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.121	3.694	-8.234	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.989	2.592	-9.251	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.530	4.860	-10.040	1.00	0.00	H
ATOM	939	2HH2	ARG A	67160.924	3.254	-10.275	1.00	0.00	H
ATOM	940	N	GLY A	68162.203	5.234	-2.690	1.00	0.00	N
ATOM	941	CA	GLY A	68163.242	5.832	-1.875	1.00	0.00	C
ATOM	942	C	GLY A	68162.747	7.030	-1.090	1.00	0.00	C
ATOM	943	O	GLY A	68163.514	7.944	-0.788	1.00	0.00	O
ATOM	944	H	GLY A	68161.762	4.410	-2.391	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.614	5.091	-1.183	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.052	6.146	-2.518	1.00	0.00	H
ATOM	947	N	THR A	69161.460	7.025	-0.757	1.00	0.00	N
ATOM	948	CA	THR A	69160.862	8.120	-0.002	1.00	0.00	C
ATOM	949	C	THR A	69160.025	7.587	1.157	1.00	0.00	C
ATOM	950	O	THR A	69158.921	7.081	0.958	1.00	0.00	O
ATOM	951	CB	THR A	69159.993	8.984	-0.918	1.00	0.00	C

ATOM	952	OG1 THR A	69160.667	9.263	-2.131	1.00	0.00	O
ATOM	953	CG2 THR A	69159.599	10.306	-0.297	1.00	0.00	C
ATOM	954	H THR A	69160.899	6.268	-1.026	1.00	0.00	H
ATOM	955	HA THR A	69161.662	8.725	0.396	1.00	0.00	H
ATOM	956	HB THR A	69159.086	8.445	-1.150	1.00	0.00	H
ATOM	957	HG1 THR A	69160.114	9.005	-2.872	1.00	0.00	H
ATOM	958	1HG2 THR A	69160.484	10.901	-0.126	1.00	0.00	H
ATOM	959	2HG2 THR A	69159.099	10.128	0.644	1.00	0.00	H
ATOM	960	3HG2 THR A	69158.934	10.834	-0.963	1.00	0.00	H
ATOM	961	N ARG A	70160.560	7.705	2.368	1.00	0.00	N
ATOM	962	CA ARG A	70159.862	7.237	3.560	1.00	0.00	C
ATOM	963	C ARG A	70158.583	8.034	3.793	1.00	0.00	C
ATOM	964	O ARG A	70158.604	9.265	3.826	1.00	0.00	O
ATOM	965	CB ARG A	70160.772	7.343	4.785	1.00	0.00	C
ATOM	966	CG ARG A	70160.162	6.760	6.050	1.00	0.00	C
ATOM	967	CD ARG A	70160.641	7.498	7.289	1.00	0.00	C
ATOM	968	NE ARG A	70161.937	7.009	7.750	1.00	0.00	N
ATOM	969	CZ ARG A	70162.648	7.587	8.716	1.00	0.00	C
ATOM	970	NH1 ARG A	70162.191	8.674	9.325	1.00	0.00	N
ATOM	971	NH2 ARG A	70163.818	7.076	9.075	1.00	0.00	N
ATOM	972	H ARG A	70161.443	8.118	2.464	1.00	0.00	H
ATOM	973	HA ARG A	70159.602	6.200	3.405	1.00	0.00	H
ATOM	974	1HB ARG A	70161.693	6.817	4.582	1.00	0.00	H
ATOM	975	2HB ARG A	70160.995	8.384	4.964	1.00	0.00	H
ATOM	976	1HG ARG A	70159.087	6.841	5.989	1.00	0.00	H
ATOM	977	2HG ARG A	70160.443	5.721	6.128	1.00	0.00	H
ATOM	978	1HD ARG A	70160.726	8.549	7.057	1.00	0.00	H

ATOM	979	2HD	ARG A	70159.914	7.362	8.077	1.00	0.00	H
ATOM	980	HE	ARG A	70162.299	6.206	7.318	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.309	9.064	9.060	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.730	9.104	10.050	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.167	6.258	8.620	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.353	7.511	9.800	1.00	0.00	H
ATOM	985	N	TYR A	71157.470	7.325	3.952	1.00	0.00	N
ATOM	986	CA	TYR A	71156.180	7.967	4.180	1.00	0.00	C
ATOM	987	C	TYR A	71155.674	7.682	5.590	1.00	0.00	C
ATOM	988	O	TYR A	71155.163	8.573	6.270	1.00	0.00	O
ATOM	989	CB	TYR A	71155.157	7.484	3.151	1.00	0.00	C
ATOM	990	CG	TYR A	71155.254	8.194	1.820	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.379	9.576	1.756	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.222	7.483	0.628	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.468	10.230	0.542	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.311	8.130	-0.592	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.433	9.502	-0.628	1.00	0.00	C
ATOM	996	OH	TYR A	71155.522	10.149	-1.840	1.00	0.00	O
ATOM	997	H	TYR A	71157.517	6.347	3.915	1.00	0.00	H
ATOM	998	HA	TYR A	71156.316	9.032	4.068	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.305	6.429	2.975	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.162	7.643	3.541	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.406	10.144	2.675	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.126	6.408	0.660	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.564	11.305	0.513	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.284	7.558	-1.507	1.00	0.00	H
ATOM	1005	HH	TYR A	71154.666	10.137	-2.273	1.00	0.00	H

ATOM	1006	N	PHE A	72155.818	6.433	6.025	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.374	6.031	7.354	1.00	0.00	C
ATOM	1008	C	PHE A	72156.371	5.067	7.991	1.00	0.00	C
ATOM	1009	O	PHE A	72157.400	4.741	7.399	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.994	5.378	7.277	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.913	4.259	6.279	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.609	4.517	4.953	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.142	2.948	6.668	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.534	3.488	4.031	1.00	0.00	C
ATOM	1015	CE2	PHE A	72154.069	1.916	5.752	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.765	2.186	4.432	1.00	0.00	C
ATOM	1017	H	PHE A	72156.233	5.768	5.436	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.310	6.918	7.965	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.740	4.976	8.247	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.265	6.125	7.000	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.430	5.534	4.638	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.380	2.735	7.700	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.296	3.703	3.000	1.00	0.00	H
ATOM	1024	HE2	PHE A	72154.249	0.899	6.067	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.707	1.383	3.714	1.00	0.00	H
ATOM	1026	N	THR A	73156.058	4.615	9.200	1.00	0.00	N
ATOM	1027	CA	THR A	73156.926	3.688	9.918	1.00	0.00	C
ATOM	1028	C	THR A	73156.249	2.332	10.092	1.00	0.00	C
ATOM	1029	O	THR A	73155.294	2.197	10.857	1.00	0.00	O
ATOM	1030	CB	THR A	73157.300	4.262	11.286	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.264	5.679	11.261	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.677	3.846	11.754	1.00	0.00	C

ATOM	1033	H	THR A	73155.224	4.911	9.621	1.00	0.00	H
ATOM	1034	HA	THR A	73157.825	3.556	9.336	1.00	0.00	H
ATOM	1035	HB	THR A	73156.583	3.918	12.018	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.170	6.012	12.157	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.583	3.105	12.534	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.203	4.708	12.137	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.228	3.428	10.924	1.00	0.00	H
ATOM	1040	N	CYS A	74156.751	1.330	9.377	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.194	-0.016	9.452	1.00	0.00	C
ATOM	1042	C	CYS A	74157.303	-1.064	9.444	1.00	0.00	C
ATOM	1043	O	CYS A	74158.474	-0.742	9.240	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.237	-0.260	8.284	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.533	0.249	8.608	1.00	0.00	S
ATOM	1046	H	CYS A	74157.513	1.501	8.785	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.646	-0.097	10.379	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.585	0.289	7.423	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.227	-1.316	8.052	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.000	-0.543	8.708	1.00	0.00	H
ATOM	1051	N	ALA A	75156.926	-2.318	9.665	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.887	-3.414	9.683	1.00	0.00	C
ATOM	1053	C	ALA A	75158.563	-3.573	8.325	1.00	0.00	C
ATOM	1054	O	ALA A	75158.307	-2.802	7.400	1.00	0.00	O
ATOM	1055	CB	ALA A	75157.202	-4.710	10.088	1.00	0.00	C
ATOM	1056	H	ALA A	75155.977	-2.512	9.820	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.639	-3.185	10.424	1.00	0.00	H
ATOM	1058	1HB	ALA A	75156.374	-4.490	10.747	1.00	0.00	H
ATOM	1059	2HB	ALA A	75157.909	-5.347	10.599	1.00	0.00	H

ATOM	1060	3HB	ALA A	75156.835	-5.214	9.206	1.00	0.00	H
ATOM	1061	N	LEU A	76159.428	-4.576	8.214	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.140	-4.836	6.970	1.00	0.00	C
ATOM	1063	C	LEU A	76159.343	-5.774	6.071	1.00	0.00	C
ATOM	1064	O	LEU A	76158.761	-6.754	6.538	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.516	-5.439	7.262	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.491	-4.508	7.985	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.544	-5.313	8.731	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.146	-3.554	6.999	1.00	0.00	C
ATOM	1069	H	LEU A	76159.589	-5.155	8.988	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.272	-3.893	6.460	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.377	-6.322	7.869	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.963	-5.733	6.325	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.946	-3.920	8.711	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.714	-6.248	8.216	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.200	-5.514	9.735	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.465	-4.752	8.771	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.105	-3.950	6.697	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.287	-2.591	7.468	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.513	-3.442	6.131	1.00	0.00	H
ATOM	1080	N	LYS A	77159.317	-5.468	4.778	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.590	-6.284	3.812	1.00	0.00	C
ATOM	1082	C	LYS A	77157.095	-6.288	4.118	1.00	0.00	C
ATOM	1083	O	LYS A	77156.429	-7.316	4.000	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.128	-7.715	3.813	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.634	-7.800	3.630	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.057	-7.310	2.255	1.00	0.00	C

ATOM	1087	CE	LYS A	77162.356	-6.523	2.319	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.544	-7.416	2.398	1.00	0.00	N
ATOM	1089	H	LYS A	77159.800	-4.674	4.465	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.743	-5.853	2.833	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.874	-8.183	4.753	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.658	-8.266	3.010	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.113	-7.190	4.381	1.00	0.00	H
ATOM	1094	2HG	LYS A	77160.943	-8.829	3.747	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.197	-8.162	1.607	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.280	-6.675	1.855	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.435	-5.912	1.433	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.333	-5.888	3.192	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.466	-8.042	3.225	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.412	-6.850	2.488	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.610	-7.999	1.540	1.00	0.00	H
ATOM	1102	N	LYS A	78156.575	-5.129	4.511	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.158	-4.999	4.835	1.00	0.00	C
ATOM	1104	C	LYS A	78154.626	-3.635	4.409	1.00	0.00	C
ATOM	1105	O	LYS A	78153.813	-3.029	5.105	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.935	-5.202	6.335	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.471	-6.525	6.856	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.046	-6.771	8.295	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.892	-7.759	8.376	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.858	-7.327	9.357	1.00	0.00	N
ATOM	1111	H	LYS A	78157.156	-4.344	4.585	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.624	-5.766	4.293	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.426	-4.403	6.871	1.00	0.00	H

ATOM	1114	2HB	LYS A	78153.875	-5.162	6.538	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.092	-7.324	6.238	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.550	-6.510	6.806	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.886	-7.169	8.845	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.737	-5.833	8.734	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.438	-7.843	7.401	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.281	-8.721	8.676	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.177	-8.095	9.519	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.348	-6.496	8.995	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.306	-7.077	10.262	1.00	0.00	H
ATOM	1124	N	ALA A	79155.092	-3.158	3.259	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.663	-1.865	2.739	1.00	0.00	C
ATOM	1126	C	ALA A	79154.486	-1.913	1.224	1.00	0.00	C
ATOM	1127	O	ALA A	79155.458	-1.832	0.474	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.663	-0.785	3.120	1.00	0.00	C
ATOM	1129	H	ALA A	79155.738	-3.687	2.748	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.714	-1.621	3.194	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.642	-1.226	3.237	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.362	-0.326	4.050	1.00	0.00	H
ATOM	1133	3HB	ALA A	79155.697	-0.034	2.344	1.00	0.00	H
ATOM	1134	N	LEU A	80153.240	-2.048	0.784	1.00	0.00	N
ATOM	1135	CA	LEU A	80152.935	-2.108	-0.642	1.00	0.00	C
ATOM	1136	C	LEU A	80152.158	-0.872	-1.085	1.00	0.00	C
ATOM	1137	O	LEU A	80150.982	-0.716	-0.757	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.132	-3.370	-0.960	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.709	-3.517	-2.423	1.00	0.00	C
ATOM	1140	CD1	LEU A	80152.928	-3.673	-3.318	1.00	0.00	C

ATOM	1141	CD2	LEU A	80150.769	-4.701	-2.589	1.00	0.00	C
ATOM	1142	H	LEU A	80152.506	-2.108	1.431	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.871	-2.142	-1.180	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.730	-4.230	-0.692	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.241	-3.369	-0.350	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.182	-2.625	-2.729	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80152.661	-3.431	-4.336	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.282	-4.692	-3.270	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.708	-3.005	-2.982	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.747	-4.365	-2.496	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.977	-5.436	-1.824	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.916	-5.145	-3.562	1.00	0.00	H
ATOM	1153	N	PHE A	81152.824	0.002	-1.833	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.195	1.224	-2.321	1.00	0.00	C
ATOM	1155	C	PHE A	81151.421	0.959	-3.609	1.00	0.00	C
ATOM	1156	O	PHE A	81151.893	0.242	-4.492	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.250	2.305	-2.561	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.927	2.771	-1.304	1.00	0.00	C
ATOM	1159	CD1	PHE A	81155.141	2.230	-0.913	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.349	3.752	-0.514	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.766	2.657	0.243	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.970	4.184	0.643	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.180	3.636	1.022	1.00	0.00	C
ATOM	1164	H	PHE A	81153.759	-0.179	-2.062	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.505	1.567	-1.565	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.011	1.916	-3.222	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.780	3.160	-3.024	1.00	0.00	H

ATOM	1168	HD1	PHE A	81155.600	1.464	-1.522	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.404	4.182	-0.810	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.712	2.227	0.537	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.509	4.949	1.250	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.667	3.972	1.926	1.00	0.00	H
ATOM	1173	N	VAL A	82150.230	1.540	-3.708	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.392	1.366	-4.888	1.00	0.00	C
ATOM	1175	C	VAL A	82148.405	2.518	-5.036	1.00	0.00	C
ATOM	1176	O	VAL A	82148.216	3.311	-4.112	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.608	0.041	-4.830	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.551	-1.144	-4.972	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.812	-0.053	-3.537	1.00	0.00	C
ATOM	1180	H	VAL A	82149.908	2.099	-2.971	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.036	1.342	-5.754	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.913	0.020	-5.657	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.173	-1.007	-5.845	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.974	-2.051	-5.080	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82150.174	-1.217	-4.093	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82148.320	0.501	-2.761	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.726	-1.088	-3.242	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82146.827	0.361	-3.690	1.00	0.00	H
ATOM	1189	N	LYS A	83147.779	2.607	-6.205	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.812	3.663	-6.476	1.00	0.00	C
ATOM	1191	C	LYS A	83145.588	3.528	-5.576	1.00	0.00	C
ATOM	1192	O	LYS A	83144.925	2.491	-5.563	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.386	3.628	-7.943	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.535	3.842	-8.914	1.00	0.00	C

ATOM	1195	CD	LYS A	83147.328	3.060	-10.201	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.711	3.883	-11.421	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.378	3.054	-12.463	1.00	0.00	N
ATOM	1198	H	LYS A	83147.972	1.946	-6.901	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.288	4.611	-6.273	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.938	2.667	-8.153	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.651	4.402	-8.112	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.605	4.893	-9.149	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.453	3.513	-8.449	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.937	2.171	-10.174	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.286	2.784	-10.277	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.818	4.321	-11.840	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.386	4.669	-11.112	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.259	2.646	-12.086	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.608	3.638	-13.292	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83147.750	2.280	-12.760	1.00	0.00	H
ATOM	1211	N	LEU A	84145.297	4.584	-4.824	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.155	4.589	-3.920	1.00	0.00	C
ATOM	1213	C	LEU A	84142.854	4.351	-4.682	1.00	0.00	C
ATOM	1214	O	LEU A	84141.904	3.781	-4.146	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.084	5.921	-3.168	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.860	6.097	-2.270	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.005	5.271	-1.001	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.654	7.566	-1.931	1.00	0.00	C
ATOM	1219	H	LEU A	84145.865	5.381	-4.880	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.292	3.790	-3.207	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.970	6.011	-2.557	1.00	0.00	H

ATOM	1222	2HB	LEU A	84144.087	6.720	-3.895	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.982	5.748	-2.796	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.855	5.627	-0.437	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.154	4.235	-1.261	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.111	5.368	-0.403	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.328	8.096	-2.815	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.585	7.988	-1.582	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.906	7.657	-1.159	1.00	0.00	H
ATOM	1230	N	LYS A	85142.820	4.791	-5.936	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.638	4.625	-6.773	1.00	0.00	C
ATOM	1232	C	LYS A	85141.346	3.149	-7.023	1.00	0.00	C
ATOM	1233	O	LYS A	85140.199	2.762	-7.245	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.824	5.353	-8.106	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.964	4.800	-8.947	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.695	5.905	-9.691	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.591	5.343	-10.783	1.00	0.00	C
ATOM	1238	NZ	LYS A	85143.805	4.844	-11.945	1.00	0.00	N
ATOM	1239	H	LYS A	85143.610	5.237	-6.307	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.799	5.061	-6.250	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.911	5.273	-8.677	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.025	6.396	-7.908	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.662	4.292	-8.299	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.560	4.099	-9.664	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.967	6.564	-10.142	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.301	6.459	-8.990	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.258	6.122	-11.119	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.168	4.528	-10.372	1.00	0.00	H

ATOM	1249	1HZ	LYS A	85143.592	3.833	-11.823	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.347	4.968	-12.823	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85142.911	5.369	-12.024	1.00	0.00	H
ATOM	1252	N	SER A	86142.391	2.327	-6.987	1.00	0.00	N
ATOM	1253	CA	SER A	86142.245	0.893	-7.211	1.00	0.00	C
ATOM	1254	C	SER A	86142.174	0.138	-5.887	1.00	0.00	C
ATOM	1255	O	SER A	86142.631	-1.000	-5.785	1.00	0.00	O
ATOM	1256	CB	SER A	86143.408	0.365	-8.051	1.00	0.00	C
ATOM	1257	OG	SER A	86143.446	0.993	-9.321	1.00	0.00	O
ATOM	1258	H	SER A	86143.283	2.693	-6.806	1.00	0.00	H
ATOM	1259	HA	SER A	86141.322	0.736	-7.749	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.338	0.562	-7.539	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.293	-0.700	-8.192	1.00	0.00	H
ATOM	1262	HG	SER A	86144.345	1.272	-9.514	1.00	0.00	H
ATOM	1263	N	CYS A	87141.598	0.779	-4.874	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.467	0.167	-3.557	1.00	0.00	C
ATOM	1265	C	CYS A	87139.999	-0.033	-3.194	1.00	0.00	C
ATOM	1266	O	CYS A	87139.129	0.702	-3.662	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.154	1.032	-2.499	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.960	0.965	-2.548	1.00	0.00	S
ATOM	1269	H	CYS A	87141.252	1.685	-5.016	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.952	-0.798	-3.590	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.861	2.062	-2.641	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.839	0.705	-1.518	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.296	1.482	-1.813	1.00	0.00	H
ATOM	1274	N	ARG A	88139.731	-1.030	-2.358	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.367	-1.324	-1.933	1.00	0.00	C

ATOM	1276	C	ARG A	88138.296	-1.513	-0.419	1.00	0.00 C
ATOM	1277	O	ARG A	88139.226	-2.038	0.193	1.00	0.00 O
ATOM	1278	CB	ARG A	88137.849	-2.577	-2.639	1.00	0.00 C
ATOM	1279	CG	ARG A	88137.403	-2.328	-4.072	1.00	0.00 C
ATOM	1280	CD	ARG A	88136.086	-3.025	-4.377	1.00	0.00 C
ATOM	1281	NE	ARG A	88135.450	-2.490	-5.578	1.00	0.00 N
ATOM	1282	CZ	ARG A	88134.428	-3.076	-6.198	1.00	0.00 C
ATOM	1283	NH1	ARG A	88133.924	-4.214	-5.735	1.00	0.00 N
ATOM	1284	NH2	ARG A	88133.907	-2.523	-7.285	1.00	0.00 N
ATOM	1285	H	ARG A	88140.466	-1.580	-2.018	1.00	0.00 H
ATOM	1286	HA	ARG A	88137.747	-0.484	-2.209	1.00	0.00 H
ATOM	1287	1HB	ARG A	88138.635	-3.319	-2.655	1.00	0.00 H
ATOM	1288	2HB	ARG A	88137.008	-2.969	-2.085	1.00	0.00 H
ATOM	1289	1HG	ARG A	88137.278	-1.266	-4.219	1.00	0.00 H
ATOM	1290	2HG	ARG A	88138.161	-2.700	-4.744	1.00	0.00 H
ATOM	1291	1HD	ARG A	88136.276	-4.079	-4.521	1.00	0.00 H
ATOM	1292	2HD	ARG A	88135.420	-2.892	-3.537	1.00	0.00 H
ATOM	1293	HE	ARG A	88135.801	-1.651	-5.942	1.00	0.00 H
ATOM	1294	1HH1	ARG A	88134.312	-4.637	-4.916	1.00	0.00 H
ATOM	1295	2HH1	ARG A	88133.157	-4.649	-6.207	1.00	0.00 H
ATOM	1296	1HH2	ARG A	88134.282	-1.665	-7.639	1.00	0.00 H
ATOM	1297	2HH2	ARG A	88133.140	-2.962	-7.752	1.00	0.00 H
ATOM	1298	N	PRO A	89137.185	-1.087	0.210	1.00	0.00 N
ATOM	1299	CA	PRO A	89137.002	-1.213	1.660	1.00	0.00 C
ATOM	1300	C	PRO A	89137.199	-2.645	2.145	1.00	0.00 C
ATOM	1301	O	PRO A	89136.595	-3.579	1.617	1.00	0.00 O
ATOM	1302	CB	PRO A	89135.553	-0.771	1.878	1.00	0.00 C

ATOM	1303	CG	PRO A	89135.241	0.104	0.715	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.025	-0.449	-0.441	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.666	-0.557	2.201	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.909	-1.640	1.904	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.475	-0.232	2.810	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.183	0.069	0.502	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.548	1.118	0.926	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.439	-1.176	-0.982	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.342	0.348	-1.098	1.00	0.00	H
ATOM	1312	N	ASP A	90138.048	-2.811	3.153	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.324	-4.130	3.710	1.00	0.00	C
ATOM	1314	C	ASP A	90137.589	-4.329	5.031	1.00	0.00	C
ATOM	1315	O	ASP A	90137.948	-3.734	6.048	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.829	-4.316	3.918	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.229	-5.777	3.972	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.989	-6.496	2.979	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.783	-6.203	5.008	1.00	0.00	O
ATOM	1320	H	ASP A	90138.500	-2.029	3.532	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.974	-4.868	3.004	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.358	-3.847	3.102	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.118	-3.847	4.846	1.00	0.00	H
ATOM	1324	N	SER A	91136.559	-5.167	5.010	1.00	0.00	N
ATOM	1325	CA	SER A	91135.772	-5.443	6.208	1.00	0.00	C
ATOM	1326	C	SER A	91136.212	-6.752	6.856	1.00	0.00	C
ATOM	1327	O	SER A	91135.407	-7.454	7.468	1.00	0.00	O
ATOM	1328	CB	SER A	91134.284	-5.508	5.861	1.00	0.00	C
ATOM	1329	OG	SER A	91133.486	-5.094	6.957	1.00	0.00	O

ATOM	1330	H	SER A	91136.321	-5.611	4.170	1.00	0.00	H
ATOM	1331	HA	SER A	91135.936	-4.637	6.905	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.083	-4.859	5.021	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.020	-6.523	5.603	1.00	0.00	H
ATOM	1334	HG	SER A	91133.511	-4.137	7.028	1.00	0.00	H
ATOM	1335	N	ARG A	92137.494	-7.074	6.718	1.00	0.00	N
ATOM	1336	CA	ARG A	92138.040	-8.299	7.291	1.00	0.00	C
ATOM	1337	C	ARG A	92137.997	-8.255	8.815	1.00	0.00	C
ATOM	1338	O	ARG A	92137.778	-9.274	9.469	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.479	-8.511	6.816	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.579	-9.239	5.486	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.435	-10.743	5.661	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.046	-11.178	5.537	1.00	0.00	N
ATOM	1343	CZ	ARG A	92137.404	-11.285	4.375	1.00	0.00	C
ATOM	1344	NH1	ARG A	92138.022	-10.991	3.239	1.00	0.00	N
ATOM	1345	NH2	ARG A	92136.142	-11.689	4.352	1.00	0.00	N
ATOM	1346	H	ARG A	92138.087	-6.473	6.220	1.00	0.00	H
ATOM	1347	HA	ARG A	92137.433	-9.123	6.950	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.957	-7.548	6.711	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.010	-9.088	7.559	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.794	-8.887	4.833	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.541	-9.027	5.042	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.026	-11.239	4.907	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.802	-11.014	6.641	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.567	-11.402	6.361	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.974	-10.686	3.249	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.534	-11.073	2.369	1.00	0.00	H

ATOM	1357	1HH2	ARG A	92135.672	-11.912	5.206	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92135.659	-11.769	3.479	1.00	0.00	H
ATOM	1359	N	PHE A	93138.207	-7.068	9.375	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.193	-6.892	10.823	1.00	0.00	C
ATOM	1361	C	PHE A	93137.029	-6.005	11.254	1.00	0.00	C
ATOM	1362	O	PHE A	93137.101	-5.323	12.276	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.514	-6.284	11.297	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.693	-7.196	11.114	1.00	0.00	C
ATOM	1365	CD1	PHE A	93141.421	-7.636	12.209	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.076	-7.612	9.850	1.00	0.00	C
ATOM	1367	CE1	PHE A	93142.507	-8.475	12.045	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.160	-8.451	9.679	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.877	-8.883	10.778	1.00	0.00	C
ATOM	1370	H	PHE A	93138.377	-6.292	8.801	1.00	0.00	H
ATOM	1371	HA	PHE A	93138.073	-7.866	11.273	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.706	-5.379	10.741	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.435	-6.046	12.348	1.00	0.00	H
ATOM	1374	HD1	PHE A	93141.132	-7.318	13.200	1.00	0.00	H
ATOM	1375	HD2	PHE A	93140.516	-7.276	8.990	1.00	0.00	H
ATOM	1376	HE1	PHE A	93143.066	-8.811	12.906	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.449	-8.769	8.688	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.726	-9.538	10.648	1.00	0.00	H
ATOM	1379	N	ALAA	94135.955	-6.018	10.469	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.778	-5.215	10.774	1.00	0.00	C
ATOM	1381	C	ALAA	94133.672	-6.072	11.385	1.00	0.00	C
ATOM	1382	O	ALAA	94133.228	-7.050	10.784	1.00	0.00	O
ATOM	1383	CB	ALAA	94134.277	-4.516	9.517	1.00	0.00	C

ATOM	1384	H	ALA A	94135.955	-6.583	9.668	1.00	0.00	H
ATOM	1385	HA	ALA A	94135.066	-4.457	11.487	1.00	0.00	H
ATOM	1386	1HB	ALA A	94134.221	-3.453	9.696	1.00	0.00	H
ATOM	1387	2HB	ALA A	94133.296	-4.890	9.260	1.00	0.00	H
ATOM	1388	3HB	ALA A	94134.960	-4.710	8.702	1.00	0.00	H
ATOM	1389	N	SER A	95133.233	-5.697	12.581	1.00	0.00	N
ATOM	1390	CA	SER A	95132.179	-6.430	13.272	1.00	0.00	C
ATOM	1391	C	SER A	95130.821	-5.774	13.045	1.00	0.00	C
ATOM	1392	O	SER A	95130.572	-4.661	13.509	1.00	0.00	O
ATOM	1393	CB	SER A	95132.478	-6.505	14.770	1.00	0.00	C
ATOM	1394	OG	SER A	95133.847	-6.787	15.003	1.00	0.00	O
ATOM	1395	H	SER A	95133.626	-4.908	13.010	1.00	0.00	H
ATOM	1396	HA	SER A	95132.153	-7.431	12.869	1.00	0.00	H
ATOM	1397	1HB	SER A	95132.235	-5.559	15.232	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.881	-7.287	15.216	1.00	0.00	H
ATOM	1399	HG	SER A	95134.085	-7.606	14.563	1.00	0.00	H
ATOM	1400	N	LEU A	96129.945	-6.471	12.329	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.611	-5.955	12.040	1.00	0.00	C
ATOM	1402	C	LEU A	96127.536	-6.887	12.586	1.00	0.00	C
ATOM	1403	O	LEU A	96126.547	-6.439	13.167	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.427	-5.773	10.532	1.00	0.00	C
ATOM	1405	CG	LEU A	96128.880	-4.419	9.983	1.00	0.00	C
ATOM	1406	CD1	LEU A	96129.430	-4.572	8.573	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.729	-3.425	10.003	1.00	0.00	C
ATOM	1408	H	LEU A	96130.200	-7.352	11.986	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.515	-4.996	12.523	1.00	0.00	H
ATOM	1410	1HB	LEU A	96128.984	-6.549	10.027	1.00	0.00	H

ATOM	1411	2HB	LEU A	96127.379	-5.897	10.300	1.00	0.00	H
ATOM	1412	HG	LEU A	96129.670	-4.030	10.609	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96129.514	-3.599	8.112	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96128.762	-5.190	7.991	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96130.404	-5.036	8.615	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96127.699	-2.929	10.962	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.798	-3.948	9.840	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96127.872	-2.692	9.223	1.00	0.00	H
ATOM	1419	N	GLN A	97127.738	-8.185	12.396	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.788	-9.186	12.869	1.00	0.00	C
ATOM	1421	C	GLN A	97127.263	-10.596	12.518	1.00	0.00	C
ATOM	1422	O	GLN A	97127.494	-11.419	13.405	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.402	-8.933	12.267	1.00	0.00	C
ATOM	1424	CG	GLN A	97124.342	-8.594	13.303	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.428	-7.470	12.856	1.00	0.00	C
ATOM	1426	OE1	GLN A	97123.886	-6.454	12.332	1.00	0.00	O
ATOM	1427	NE2	GLN A	97122.129	-7.646	13.061	1.00	0.00	N
ATOM	1428	H	GLN A	97128.546	-8.476	11.927	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.724	-9.099	13.943	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.470	-8.109	11.572	1.00	0.00	H
ATOM	1431	2HB	GLN A	97125.085	-9.817	11.734	1.00	0.00	H
ATOM	1432	1HG	GLN A	97123.742	-9.473	13.485	1.00	0.00	H
ATOM	1433	2HG	GLN A	97124.833	-8.298	14.217	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97121.836	-8.481	13.484	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97121.515	-6.935	12.782	1.00	0.00	H
ATOM	1436	N	PRO A	98127.412	-10.893	11.216	1.00	0.00	N
ATOM	1437	CA	PRO A	98127.860	-12.212	10.755	1.00	0.00	C

ATOM	1438	C	PRO A	98129.343	-12.446	11.021	1.00	0.00	C
ATOM	1439	O	PRO A	98130.147	-11.514	10.978	1.00	0.00	O
ATOM	1440	CB	PRO A	98127.586	-12.170	9.252	1.00	0.00	C
ATOM	1441	CG	PRO A	98127.666	-10.727	8.894	1.00	0.00	C
ATOM	1442	CD	PRO A	98127.157	-9.972	10.092	1.00	0.00	C
ATOM	1443	HA	PRO A	98127.285	-13.006	11.208	1.00	0.00	H
ATOM	1444	1HB	PRO A	98128.334	-12.751	8.731	1.00	0.00	H
ATOM	1445	2HB	PRO A	98126.605	-12.573	9.050	1.00	0.00	H
ATOM	1446	1HG	PRO A	98128.691	-10.457	8.689	1.00	0.00	H
ATOM	1447	2HG	PRO A	98127.045	-10.527	8.034	1.00	0.00	H
ATOM	1448	1HD	PRO A	98127.704	-9.050	10.216	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.100	-9.773	9.990	1.00	0.00	H
ATOM	1450	N	SER A	99129.699	-13.697	11.297	1.00	0.00	N
ATOM	1451	CA	SER A	99131.085	-14.054	11.570	1.00	0.00	C
ATOM	1452	C	SER A	99131.356	-15.507	11.195	1.00	0.00	C
ATOM	1453	O	SER A	99130.447	-16.337	11.190	1.00	0.00	O
ATOM	1454	CB	SER A	99131.412	-13.827	13.046	1.00	0.00	C
ATOM	1455	OG	SER A	99130.829	-14.832	13.858	1.00	0.00	O
ATOM	1456	H	SER A	99129.012	-14.396	11.317	1.00	0.00	H
ATOM	1457	HA	SER A	99131.717	-13.416	10.969	1.00	0.00	H
ATOM	1458	1HB	SER A	99132.483	-13.848	13.185	1.00	0.00	H
ATOM	1459	2HB	SER A	99131.028	-12.865	13.354	1.00	0.00	H
ATOM	1460	HG	SER A	99130.852	-14.555	14.778	1.00	0.00	H
ATOM	1461	N	GLY A	100132.612	-15.809	10.882	1.00	0.00	N
ATOM	1462	CA	GLY A	100132.979	-17.163	10.510	1.00	0.00	C
ATOM	1463	C	GLY A	100134.442	-17.462	10.777	1.00	0.00	C
ATOM	1464	O	GLY A	100135.251	-17.486	9.850	1.00	0.00	O

ATOM	1465	H	GLY A 100133.294 -15.106	10.903	1.00	0.00	H
ATOM	1466	1HA	GLY A 100132.372 -17.856	11.074	1.00	0.00	H
ATOM	1467	2HA	GLY A 100132.780 -17.301	9.458	1.00	0.00	H
ATOM	1468	N	PRO A 101134.815 -17.697	12.047	1.00	0.00	N
ATOM	1469	CA	PRO A 101136.202 -17.996	12.419	1.00	0.00	C
ATOM	1470	C	PRO A 101136.787 -19.140	11.599	1.00	0.00	C
ATOM	1471	O	PRO A 101136.061 -20.022	11.139	1.00	0.00	O
ATOM	1472	CB	PRO A 101136.097 -18.395	13.893	1.00	0.00	C
ATOM	1473	CG	PRO A 101134.864 -17.718	14.383	1.00	0.00	C
ATOM	1474	CD	PRO A 101133.917 -17.688	13.216	1.00	0.00	C
ATOM	1475	HA	PRO A 101136.834 -17.126	12.323	1.00	0.00	H
ATOM	1476	1HB	PRO A 101136.017 -19.470	13.973	1.00	0.00	H
ATOM	1477	2HB	PRO A 101136.972 -18.053	14.425	1.00	0.00	H
ATOM	1478	1HG	PRO A 101134.436 -18.279	15.200	1.00	0.00	H
ATOM	1479	2HG	PRO A 101135.099 -16.712	14.701	1.00	0.00	H
ATOM	1480	1HD	PRO A 101133.284 -18.563	13.222	1.00	0.00	H
ATOM	1481	2HD	PRO A 101133.321 -16.788	13.237	1.00	0.00	H
ATOM	1482	N	SER A 102138.103 -19.118	11.418	1.00	0.00	N
ATOM	1483	CA	SER A 102138.787 -20.154	10.651	1.00	0.00	C
ATOM	1484	C	SER A 102139.818 -20.878	11.512	1.00	0.00	C
ATOM	1485	O	SER A 102140.315 -20.329	12.495	1.00	0.00	O
ATOM	1486	CB	SER A 102139.468 -19.545	9.425	1.00	0.00	C
ATOM	1487	OG	SER A 102138.523 -19.241	8.414	1.00	0.00	O
ATOM	1488	H	SER A 102138.628 -18.389	11.808	1.00	0.00	H
ATOM	1489	HA	SER A 102138.046 -20.867	10.322	1.00	0.00	H
ATOM	1490	1HB	SER A 102139.974 -18.635	9.712	1.00	0.00	H
ATOM	1491	2HB	SER A 102140.187 -20.247	9.029	1.00	0.00	H

- 1001 -

ATOM	1492	HG	SER A	102137.839	-18.673	8.775	1.00	0.00	H
ATOM	1493	N	SER A	103140.134	-22.112	11.136	1.00	0.00	N
ATOM	1494	CA	SER A	103141.105	-22.911	11.874	1.00	0.00	C
ATOM	1495	C	SER A	103141.842	-23.868	10.942	1.00	0.00	C
ATOM	1496	O	SER A	103142.183	-24.986	11.329	1.00	0.00	O
ATOM	1497	CB	SER A	103140.411	-23.698	12.987	1.00	0.00	C
ATOM	1498	OG	SER A	103140.321	-22.930	14.174	1.00	0.00	O
ATOM	1499	H	SER A	103139.703	-22.495	10.344	1.00	0.00	H
ATOM	1500	HA	SER A	103141.822	-22.236	12.316	1.00	0.00	H
ATOM	1501	1HB	SER A	103139.413	-23.963	12.668	1.00	0.00	H
ATOM	1502	2HB	SER A	103140.973	-24.596	13.195	1.00	0.00	H
ATOM	1503	HG	SER A	103140.572	-23.472	14.925	1.00	0.00	H
ATOM	1504	N	GLY A	104142.085	-23.422	9.714	1.00	0.00	N
ATOM	1505	CA	GLY A	104142.779	-24.252	8.748	1.00	0.00	C
ATOM	1506	C	GLY A	104142.212	-24.111	7.349	1.00	0.00	C
ATOM	1507	O	GLY A	104141.005	-23.819	7.224	1.00	0.00	O
ATOM	1508	OXT	GLY A	104142.976	-24.292	6.377	1.00	0.00	O
ATOM	1509	H	GLY A	104141.789	-22.522	9.463	1.00	0.00	H
ATOM	1510	1HA	GLY A	104143.822	-23.971	8.732	1.00	0.00	H
ATOM	1511	2HA	GLY A	104142.700	-25.285	9.054	1.00	0.00	H
TER	1512	GLY A	104						
ENDMDL									

Three-Dimensional Structure Coordinate Table 18

ATOM 1	N	GLY A	1122.048	-9.408	-2.078	1.00	0.00	N
ATOM 2	CA	GLY A	1123.433	-8.870	-1.967	1.00	0.00	C
ATOM 3	C	GLY A	1124.484	-9.960	-2.023	1.00	0.00	C

ATOM 4	O	GLY A	1125.519	-9.869	-1.362	1.00	0.00	O
ATOM 5	1H	GLY A	1121.925	-10.215	-1.433	1.00	0.00	H
ATOM 6	2H	GLY A	1121.865	-9.725	-3.051	1.00	0.00	H
ATOM 7	3H	GLY A	1121.357	-8.671	-1.830	1.00	0.00	H
ATOM 8	1HA	GLY A	1123.604	-8.177	-2.777	1.00	0.00	H
ATOM 9	2HA	GLY A	1123.527	-8.342	-1.029	1.00	0.00	H
ATOM10	N	SER A	2124.220	-10.995	-2.815	1.00	0.00	N
ATOM11	CA	SER A	2125.152	-12.107	-2.955	1.00	0.00	C
ATOM12	C	SER A	2126.245	-11.777	-3.965	1.00	0.00	C
ATOM13	O	SER A	2127.392	-12.199	-3.814	1.00	0.00	O
ATOM14	CB	SER A	2124.407	-13.372	-3.387	1.00	0.00	C
ATOM15	OG	SER A	2123.438	-13.747	-2.424	1.00	0.00	O
ATOM16	H	SER A	2123.378	-11.010	-3.315	1.00	0.00	H
ATOM17	HA	SER A	2125.608	-12.281	-1.992	1.00	0.00	H
ATOM18	1HB	SER A	2123.909	-13.191	-4.327	1.00	0.00	H
ATOM19	2HB	SER A	2125.113	-14.181	-3.503	1.00	0.00	H
ATOM20	HG	SER A	2123.549	-14.675	-2.202	1.00	0.00	H
ATOM21	N	SER A	3125.882	-11.020	-4.995	1.00	0.00	N
ATOM22	CA	SER A	3126.833	-10.632	-6.031	1.00	0.00	C
ATOM23	C	SER A	3126.285	-9.482	-6.869	1.00	0.00	C
ATOM24	O	SER A	3125.673	-9.699	-7.915	1.00	0.00	O
ATOM25	CB	SER A	3127.155	-11.826	-6.930	1.00	0.00	C
ATOM26	OG	SER A	3128.105	-11.477	-7.922	1.00	0.00	O
ATOM27	H	SER A	3124.954	-10.714	-5.061	1.00	0.00	H
ATOM28	HA	SER A	3127.739	-10.306	-5.543	1.00	0.00	H
ATOM29	1HB	SER A	3127.558	-12.628	-6.331	1.00	0.00	H
ATOM30	2HB	SER A	3126.250	-12.161	-7.418	1.00	0.00	H

ATOM31	HG	SER A	3128.611	-12.255	-8.168	1.00	0.00	H
ATOM32	N	GLY A	4126.509	-8.257	-6.404	1.00	0.00	N
ATOM33	CA	GLY A	4126.031	-7.092	-7.123	1.00	0.00	C
ATOM34	C	GLY A	4126.690	-5.809	-6.654	1.00	0.00	C
ATOM35	O	GLY A	4127.332	-5.781	-5.604	1.00	0.00	O
ATOM36	H	GLY A	4127.003	-8.144	-5.565	1.00	0.00	H
ATOM37 1HA	GLY A		4126.235	-7.224	-8.176	1.00	0.00	H
ATOM38 2HA	GLY A		4124.964	-7.008	-6.982	1.00	0.00	H
ATOM39	N	SER A	5126.531	-4.745	-7.434	1.00	0.00	N
ATOM40	CA	SER A	5127.115	-3.453	-7.094	1.00	0.00	C
ATOM41	C	SER A	5126.123	-2.323	-7.352	1.00	0.00	C
ATOM42	O	SER A	5125.253	-2.434	-8.216	1.00	0.00	O
ATOM43	CB	SER A	5128.394	-3.220	-7.900	1.00	0.00	C
ATOM44	OG	SER A	5128.991	-4.449	-8.277	1.00	0.00	O
ATOM45	H	SER A	5126.008	-4.831	-8.259	1.00	0.00	H
ATOM46	HA	SER A	5127.360	-3.467	-6.043	1.00	0.00	H
ATOM47 1HB	SER A		5128.158	-2.661	-8.793	1.00	0.00	H
ATOM48 2HB	SER A		5129.097	-2.660	-7.301	1.00	0.00	H
ATOM49	HG	SER A	5129.599	-4.299	-9.004	1.00	0.00	H
ATOM50	N	SER A	6126.262	-1.238	-6.599	1.00	0.00	N
ATOM51	CA	SER A	6125.378	-0.087	-6.747	1.00	0.00	C
ATOM52	C	SER A	6126.092	1.202	-6.352	1.00	0.00	C
ATOM53	O	SER A	6126.055	2.192	-7.082	1.00	0.00	O
ATOM54	CB	SER A	6124.121	-0.271	-5.895	1.00	0.00	C
ATOM55	OG	SER A	6123.191	0.774	-6.124	1.00	0.00	O
ATOM56	H	SER A	6126.975	-1.210	-5.927	1.00	0.00	H
ATOM57	HA	SER A	6125.090	-0.022	-7.786	1.00	0.00	H

ATOM58	1HB	SER A	6123.654	-1.211	-6.143	1.00	0.00	H
ATOM59	2HB	SER A	6124.394	-0.269	-4.850	1.00	0.00	H
ATOM60	HG	SER A	6122.418	0.643	-5.570	1.00	0.00	H
ATOM61	N	GLY A	7126.738	1.181	-5.192	1.00	0.00	N
ATOM62	CA	GLY A	7127.452	2.354	-4.720	1.00	0.00	C
ATOM63	C	GLY A	7128.890	2.390	-5.199	1.00	0.00	C
ATOM64	O	GLY A	7129.155	2.279	-6.396	1.00	0.00	O
ATOM65	H	GLY A	7126.733	0.363	-4.652	1.00	0.00	H
ATOM66	1HA	GLY A	7126.943	3.238	-5.074	1.00	0.00	H
ATOM67	2HA	GLY A	7127.444	2.356	-3.640	1.00	0.00	H
ATOM68	N	LEU A	8129.820	2.548	-4.262	1.00	0.00	N
ATOM69	CA	LEU A	8131.240	2.602	-4.592	1.00	0.00	C
ATOM70	C	LEU A	8131.555	3.842	-5.423	1.00	0.00	C
ATOM71	O	LEU A	8132.462	3.829	-6.255	1.00	0.00	O
ATOM72	CB	LEU A	8131.660	1.343	-5.354	1.00	0.00	C
ATOM73	CG	LEU A	8131.271	0.023	-4.684	1.00	0.00	C
ATOM74	CD1	LEU A	8131.002	-1.047	-5.732	1.00	0.00	C
ATOM75	CD2	LEU A	8132.363	-0.430	-3.727	1.00	0.00	C
ATOM76	H	LEU A	8129.545	2.634	-3.326	1.00	0.00	H
ATOM77	HA	LEU A	8131.793	2.655	-3.667	1.00	0.00	H
ATOM78	1HB	LEU A	8131.208	1.372	-6.334	1.00	0.00	H
ATOM79	2HB	LEU A	8132.734	1.359	-5.469	1.00	0.00	H
ATOM80	HG	LEU A	8130.364	0.168	-4.116	1.00	0.00	H
ATOM81	1HD1	LEU A	8130.300	-1.767	-5.338	1.00	0.00	H
ATOM82	2HD1	LEU A	8131.926	-1.546	-5.983	1.00	0.00	H
ATOM83	3HD1	LEU A	8130.589	-0.588	-6.618	1.00	0.00	H
ATOM84	1HD2	LEU A	8131.912	-0.895	-2.862	1.00	0.00	H

ATOM85	2HD2	LEU A	8132.944	0.425	-3.413	1.00	0.00	H	
ATOM86	3HD2	LEU A	8133.007	-1.140	-4.224	1.00	0.00	H	
ATOM87	N	ALAA	9130.801	4.910	-5.189	1.00	0.00	N	
ATOM88	CA	ALAA	9131.001	6.157	-5.914	1.00	0.00	C	
ATOM89	C	ALAA	9130.469	7.346	-5.120	1.00	0.00	C	
ATOM90	O	ALAA	9129.258	7.537	-5.006	1.00	0.00	O	
ATOM91	CB	ALAA	9130.329	6.088	-7.278	1.00	0.00	C	
ATOM92	H	ALAA	9130.094	4.858	-4.513	1.00	0.00	H	
ATOM93	HA	ALAA	9132.062	6.285	-6.068	1.00	0.00	H	
ATOM94	1HB	ALAA	9130.944	6.593	-8.008	1.00	0.00	H	
ATOM95	2HB	ALAA	9129.363	6.567	-7.227	1.00	0.00	H	
ATOM96	3HB	ALAA	9130.204	5.055	-7.566	1.00	0.00	H	
ATOM97	N	META	10131.383	8.140	-4.573	1.00	0.00	N	
ATOM98	CA	META	10131.008	9.311	-3.790	1.00	0.00	C	
ATOM99	C	META	10131.358	10.598	-4.537	1.00	0.00	C	
ATOM	100	O	META	10132.443	10.715	-5.107	1.00	0.00	O
ATOM	101	CB	META	10131.713	9.287	-2.432	1.00	0.00	C
ATOM	102	CG	META	10130.816	9.682	-1.271	1.00	0.00	C
ATOM	103	SD	META	10131.725	9.877	0.275	1.00	0.00	S
ATOM	104	CE	META	10130.949	8.618	1.285	1.00	0.00	C
ATOM	105	H	META	10132.333	7.936	-4.700	1.00	0.00	H
ATOM	106	HA	META	10129.941	9.276	-3.633	1.00	0.00	H
ATOM	107	1HB	META	10132.082	8.288	-2.249	1.00	0.00	H
ATOM	108	2HB	META	10132.550	9.969	-2.460	1.00	0.00	H
ATOM	109	1HG	META	10130.334	10.619	-1.508	1.00	0.00	H
ATOM	110	2HG	META	10130.065	8.917	-1.137	1.00	0.00	H
ATOM	111	1HE	META	10131.556	8.432	2.159	1.00	0.00	H

ATOM	112	2HE	MET A	10130.851	7.708	0.715	1.00	0.00	H
ATOM	113	3HE	MET A	10129.971	8.957	1.594	1.00	0.00	H
ATOM	114	N	PRO A	11130.444	11.585	-4.545	1.00	0.00	N
ATOM	115	CA	PRO A	11130.676	12.861	-5.227	1.00	0.00	C
ATOM	116	C	PRO A	11131.984	13.523	-4.799	1.00	0.00	C
ATOM	117	O	PRO A	11132.750	13.996	-5.638	1.00	0.00	O
ATOM	118	CB	PRO A	11129.479	13.721	-4.815	1.00	0.00	C
ATOM	119	CG	PRO A	11128.418	12.751	-4.428	1.00	0.00	C
ATOM	120	CD	PRO A	11129.125	11.537	-3.891	1.00	0.00	C
ATOM	121	HA	PRO A	11130.677	12.736	-6.301	1.00	0.00	H
ATOM	122	1HB	PRO A	11129.757	14.356	-3.987	1.00	0.00	H
ATOM	123	2HB	PRO A	11129.167	14.331	-5.651	1.00	0.00	H
ATOM	124	1HG	PRO A	11127.791	13.183	-3.663	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.827	12.488	-5.293	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.225	11.604	-2.818	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.592	10.639	-4.166	1.00	0.00	H
ATOM	128	N	PRO A	12132.267	13.564	-3.482	1.00	0.00	N
ATOM	129	CA	PRO A	12133.497	14.170	-2.962	1.00	0.00	C
ATOM	130	C	PRO A	12134.740	13.414	-3.417	1.00	0.00	C
ATOM	131	O	PRO A	12135.843	13.959	-3.424	1.00	0.00	O
ATOM	132	CB	PRO A	12133.343	14.075	-1.437	1.00	0.00	C
ATOM	133	CG	PRO A	12131.898	13.796	-1.201	1.00	0.00	C
ATOM	134	CD	PRO A	12131.429	13.024	-2.400	1.00	0.00	C
ATOM	135	HA	PRO A	12133.581	15.206	-3.255	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.965	13.276	-1.059	1.00	0.00	H
ATOM	137	2HB	PRO A	12133.641	15.010	-0.985	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.778	13.205	-0.305	1.00	0.00	H

ATOM	139	2HG	PRO A	12131.353	14.723	-1.116	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.606	11.967	-2.262	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.384	13.214	-2.586	1.00	0.00	H
ATOM	142	N	GLY A	13134.552	12.153	-3.795	1.00	0.00	N
ATOM	143	CA	GLY A	13135.667	11.340	-4.247	1.00	0.00	C
ATOM	144	C	GLY A	13135.760	10.021	-3.505	1.00	0.00	C
ATOM	145	O	GLY A	13135.069	9.811	-2.508	1.00	0.00	O
ATOM	146	H	GLY A	13133.649	11.771	-3.768	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.548	11.139	-5.302	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.583	11.889	-4.098	1.00	0.00	H
ATOM	149	N	ASN A	14136.617	9.129	-3.994	1.00	0.00	N
ATOM	150	CA	ASN A	14136.800	7.824	-3.370	1.00	0.00	C
ATOM	151	C	ASN A	14135.497	7.030	-3.376	1.00	0.00	C
ATOM	152	O	ASN A	14134.480	7.493	-3.893	1.00	0.00	O
ATOM	153	CB	ASN A	14137.305	7.985	-1.936	1.00	0.00	C
ATOM	154	CG	ASN A	14138.802	8.218	-1.873	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.268	9.355	-1.952	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.563	7.139	-1.730	1.00	0.00	N
ATOM	157	H	ASN A	14137.139	9.355	-4.791	1.00	0.00	H
ATOM	158	HA	ASN A	14137.538	7.283	-3.944	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.808	8.827	-1.479	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.074	7.090	-1.376	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.122	6.266	-1.674	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.534	7.262	-1.687	1.00	0.00	H
ATOM	163	N	SER A	15135.535	5.835	-2.798	1.00	0.00	N
ATOM	164	CA	SER A	15134.356	4.977	-2.736	1.00	0.00	C
ATOM	165	C	SER A	15133.482	5.338	-1.541	1.00	0.00	C

ATOM	166	O	SER A	15132.349	5.791	-1.701	1.00	0.00	O
ATOM	167	CB	SER A	15134.773	3.507	-2.654	1.00	0.00	C
ATOM	168	OG	SER A	15136.026	3.369	-2.006	1.00	0.00	O
ATOM	169	H	SER A	15136.375	5.521	-2.403	1.00	0.00	H
ATOM	170	HA	SER A	15133.789	5.130	-3.642	1.00	0.00	H
ATOM	171	1HB	SER A	15134.031	2.956	-2.096	1.00	0.00	H
ATOM	172	2HB	SER A	15134.850	3.100	-3.651	1.00	0.00	H
ATOM	173	HG	SER A	15136.551	2.707	-2.463	1.00	0.00	H
ATOM	174	N	HIS A	16134.017	5.135	-0.341	1.00	0.00	N
ATOM	175	CA	HIS A	16133.285	5.439	0.884	1.00	0.00	C
ATOM	176	C	HIS A	16134.130	6.294	1.823	1.00	0.00	C
ATOM	177	O	HIS A	16133.680	7.333	2.306	1.00	0.00	O
ATOM	178	CB	HIS A	16132.866	4.144	1.586	1.00	0.00	C
ATOM	179	CG	HIS A	16131.397	4.065	1.864	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.777	4.797	2.855	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.421	3.334	1.274	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.485	4.518	2.863	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.244	3.635	1.914	1.00	0.00	N
ATOM	184	H	HIS A	16134.925	4.772	-0.277	1.00	0.00	H
ATOM	185	HA	HIS A	16132.400	5.993	0.611	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.130	3.304	0.962	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.389	4.066	2.528	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.219	5.426	3.463	1.00	0.00	H
ATOM	189	HD2	HIS A	16130.547	2.642	0.453	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.752	4.944	3.532	1.00	0.00	H
ATOM	191	HE2	HIS A	16128.383	3.193	1.759	1.00	0.00	H
ATOM	192	N	GLY A	17135.356	5.850	2.079	1.00	0.00	N

ATOM	193	CA	GLY A	17136.244	6.586	2.959	1.00	0.00	C
ATOM	194	C	GLY A	17137.596	5.918	3.109	1.00	0.00	C
ATOM	195	O	GLY A	17137.910	5.368	4.164	1.00	0.00	O
ATOM	196	H	GLY A	17135.660	5.015	1.665	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.387	7.579	2.560	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.783	6.664	3.933	1.00	0.00	H
ATOM	199	N	LEU A	18138.398	5.966	2.051	1.00	0.00	N
ATOM	200	CA	LEU A	18139.725	5.362	2.070	1.00	0.00	C
ATOM	201	C	LEU A	18140.782	6.382	2.478	1.00	0.00	C
ATOM	202	O	LEU A	18141.246	7.174	1.658	1.00	0.00	O
ATOM	203	CB	LEU A	18140.064	4.782	0.695	1.00	0.00	C
ATOM	204	CG	LEU A	18139.132	3.667	0.215	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.297	3.440	-1.279	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.400	2.383	0.985	1.00	0.00	C
ATOM	207	H	LEU A	18138.091	6.420	1.238	1.00	0.00	H
ATOM	208	HA	LEU A	18139.714	4.562	2.795	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.034	5.585	-0.028	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.069	4.389	0.730	1.00	0.00	H
ATOM	211	HG	LEU A	18138.108	3.960	0.397	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.976	2.615	-1.445	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.697	4.332	-1.737	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.337	3.210	-1.717	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.819	2.382	1.896	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.450	2.321	1.228	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.119	1.534	0.378	1.00	0.00	H
ATOM	218	N	GLU A	19141.161	6.355	3.752	1.00	0.00	N
ATOM	219	CA	GLU A	19142.165	7.278	4.270	1.00	0.00	C

ATOM	220	C	GLU A	19143.124	6.563	5.216	1.00	0.00 C
ATOM	221	O	GLU A	19142.959	5.376	5.502	1.00	0.00 O
ATOM	222	CB	GLU A	19141.490	8.443	4.996	1.00	0.00 C
ATOM	223	CG	GLU A	19140.512	8.005	6.073	1.00	0.00 C
ATOM	224	CD	GLU A	19140.304	9.064	7.137	1.00	0.00 C
ATOM	225	OE1	GLU A	19139.864	8.709	8.251	1.00	0.00 O
ATOM	226	OE2	GLU A	19140.581	10.250	6.858	1.00	0.00 O
ATOM	227	H	GLU A	19140.756	5.701	4.358	1.00	0.00 H
ATOM	228	HA	GLU A	19142.725	7.664	3.432	1.00	0.00 H
ATOM	229	1HB	GLU A	19142.252	9.054	5.458	1.00	0.00 H
ATOM	230	2HB	GLU A	19140.953	9.040	4.272	1.00	0.00 H
ATOM	231	1HG	GLU A	19139.560	7.790	5.610	1.00	0.00 H
ATOM	232	2HG	GLU A	19140.892	7.111	6.544	1.00	0.00 H
ATOM	233	N	VAL A	20144.125	7.292	5.699	1.00	0.00 N
ATOM	234	CA	VAL A	20145.110	6.726	6.613	1.00	0.00 C
ATOM	235	C	VAL A	20144.444	6.188	7.875	1.00	0.00 C
ATOM	236	O	VAL A	20143.639	6.874	8.504	1.00	0.00 O
ATOM	237	CB	VAL A	20146.171	7.770	7.011	1.00	0.00 C
ATOM	238	CG1	VAL A	20147.292	7.118	7.806	1.00	0.00 C
ATOM	239	CG2	VAL A	20146.720	8.469	5.777	1.00	0.00 C
ATOM	240	H	VAL A	20144.204	8.232	5.434	1.00	0.00 H
ATOM	241	HA	VAL A	20145.608	5.913	6.105	1.00	0.00 H
ATOM	242	HB	VAL A	20145.699	8.511	7.639	1.00	0.00 H
ATOM	243	1HG1	VAL A	20147.005	7.052	8.845	1.00	0.00 H
ATOM	244	2HG1	VAL A	20148.189	7.712	7.717	1.00	0.00 H
ATOM	245	3HG1	VAL A	20147.478	6.126	7.421	1.00	0.00 H
ATOM	246	1HG2	VAL A	20146.950	7.735	5.019	1.00	0.00 H

ATOM	247	2HG2	VAL A	20147.619	9.009	6.038	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.983	9.161	5.396	1.00	0.00	H
ATOM	249	N	GLY A	21144.787	4.957	8.240	1.00	0.00	N
ATOM	250	CA	GLY A	21144.211	4.348	9.425	1.00	0.00	C
ATOM	251	C	GLY A	21143.134	3.335	9.090	1.00	0.00	C
ATOM	252	O	GLY A	21142.916	2.381	9.838	1.00	0.00	O
ATOM	253	H	GLY A	21145.434	4.458	7.699	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.997	3.853	9.978	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.783	5.123	10.042	1.00	0.00	H
ATOM	256	N	SER A	22142.457	3.543	7.966	1.00	0.00	N
ATOM	257	CA	SER A	22141.395	2.642	7.535	1.00	0.00	C
ATOM	258	C	SER A	22141.962	1.487	6.716	1.00	0.00	C
ATOM	259	O	SER A	22143.018	1.614	6.094	1.00	0.00	O
ATOM	260	CB	SER A	22140.354	3.403	6.713	1.00	0.00	C
ATOM	261	OG	SER A	22140.256	4.752	7.136	1.00	0.00	O
ATOM	262	H	SER A	22142.676	4.323	7.414	1.00	0.00	H
ATOM	263	HA	SER A	22140.921	2.242	8.419	1.00	0.00	H
ATOM	264	1HB	SER A	22140.637	3.385	5.671	1.00	0.00	H
ATOM	265	2HB	SER A	22139.389	2.931	6.832	1.00	0.00	H
ATOM	266	HG	SER A	22140.225	4.786	8.094	1.00	0.00	H
ATOM	267	N	LEU A	23141.255	0.363	6.718	1.00	0.00	N
ATOM	268	CA	LEU A	23141.687	-0.815	5.976	1.00	0.00	C
ATOM	269	C	LEU A	23141.168	-0.774	4.541	1.00	0.00	C
ATOM	270	O	LEU A	23140.116	-0.197	4.268	1.00	0.00	O
ATOM	271	CB	LEU A	23141.202	-2.088	6.670	1.00	0.00	C
ATOM	272	CG	LEU A	23141.626	-2.231	8.132	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.629	-3.086	8.896	1.00	0.00	C

ATOM	274	CD2	LEU A	23143.024	-2.824	8.226	1.00	0.00	C
ATOM	275	H	LEU A	23140.421	0.323	7.234	1.00	0.00	H
ATOM	276	HA	LEU A	23142.767	-0.815	5.955	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.123	-2.109	6.625	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.585	-2.938	6.124	1.00	0.00	H
ATOM	279	HG	LEU A	23141.646	-1.252	8.591	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.808	-2.986	9.957	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.748	-4.120	8.608	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.626	-2.761	8.667	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.555	-2.641	7.303	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.953	-3.888	8.396	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.557	-2.363	9.045	1.00	0.00	H
ATOM	286	N	ALAA	24141.915	-1.389	3.630	1.00	0.00	N
ATOM	287	CA	ALAA	24141.529	-1.423	2.224	1.00	0.00	C
ATOM	288	C	ALAA	24142.121	-2.640	1.521	1.00	0.00	C
ATOM	289	O	ALAA	24143.023	-3.294	2.044	1.00	0.00	O
ATOM	290	CB	ALAA	24141.969	-0.144	1.526	1.00	0.00	C
ATOM	291	H	ALAA	24142.743	-1.830	3.909	1.00	0.00	H
ATOM	292	HA	ALAA	24140.452	-1.479	2.176	1.00	0.00	H
ATOM	293	1HB	ALAA	24141.717	-0.202	0.478	1.00	0.00	H
ATOM	294	2HB	ALAA	24143.037	-0.024	1.634	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.466	0.701	1.972	1.00	0.00	H
ATOM	296	N	GLU A	25141.605	-2.939	0.333	1.00	0.00	N
ATOM	297	CA	GLU A	25142.081	-4.077	-0.443	1.00	0.00	C
ATOM	298	C	GLU A	25142.488	-3.644	-1.848	1.00	0.00	C
ATOM	299	O	GLU A	25142.089	-2.580	-2.320	1.00	0.00	O
ATOM	300	CB	GLU A	25140.999	-5.155	-0.523	1.00	0.00	C

ATOM	301	CG	GLU A	25141.483	-6.460	-1.133	1.00	0.00	C
ATOM	302	CD	GLU A	25140.401	-7.521	-1.174	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.726	-8.709	-0.962	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.228	-7.166	-1.416	1.00	0.00	O
ATOM	305	H	GLU A	25140.888	-2.379	-0.031	1.00	0.00	H
ATOM	306	HA	GLU A	25142.945	-4.484	0.060	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.638	-5.362	0.474	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.181	-4.783	-1.122	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.815	-6.270	-2.143	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.310	-6.832	-0.547	1.00	0.00	H
ATOM	311	N	VAL A	26143.287	-4.475	-2.511	1.00	0.00	N
ATOM	312	CA	VAL A	26143.748	-4.177	-3.861	1.00	0.00	C
ATOM	313	C	VAL A	26143.419	-5.317	-4.819	1.00	0.00	C
ATOM	314	O	VAL A	26143.323	-6.475	-4.413	1.00	0.00	O
ATOM	315	CB	VAL A	26145.265	-3.918	-3.892	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.695	-3.418	-5.262	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.659	-2.927	-2.807	1.00	0.00	C
ATOM	318	H	VAL A	26143.571	-5.309	-2.081	1.00	0.00	H
ATOM	319	HA	VAL A	26143.244	-3.282	-4.196	1.00	0.00	H
ATOM	320	HB	VAL A	26145.774	-4.851	-3.699	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.529	-2.740	-5.153	1.00	0.00	H
ATOM	322	2HG1	VAL A	26144.870	-2.902	-5.732	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.990	-4.257	-5.875	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.736	-2.901	-2.717	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.228	-3.233	-1.866	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.296	-1.944	-3.067	1.00	0.00	H
ATOM	327	N	LYS A	27143.246	-4.980	-6.093	1.00	0.00	N

ATOM	328	CA	LYS A	27142.928	-5.975	-7.111	1.00	0.00 C
ATOM	329	C	LYS A	27144.200	-6.598	-7.678	1.00	0.00 C
ATOM	330	O	LYS A	27145.039	-5.906	-8.254	1.00	0.00 O
ATOM	331	CB	LYS A	27142.112	-5.339	-8.237	1.00	0.00 C
ATOM	332	CG	LYS A	27140.694	-4.972	-7.829	1.00	0.00 C
ATOM	333	CD	LYS A	27139.714	-5.178	-8.973	1.00	0.00 C
ATOM	334	CE	LYS A	27139.400	-6.652	-9.178	1.00	0.00 C
ATOM	335	NZ	LYS A	27138.239	-7.091	-8.356	1.00	0.00 N
ATOM	336	H	LYS A	27143.336	-4.040	-6.356	1.00	0.00 H
ATOM	337	HA	LYS A	27142.339	-6.751	-6.643	1.00	0.00 H
ATOM	338	1HB	LYS A	27142.612	-4.442	-8.567	1.00	0.00 H
ATOM	339	2HB	LYS A	27142.057	-6.034	-9.063	1.00	0.00 H
ATOM	340	1HG	LYS A	27140.397	-5.594	-6.998	1.00	0.00 H
ATOM	341	2HG	LYS A	27140.674	-3.935	-7.532	1.00	0.00 H
ATOM	342	1HD	LYS A	27138.798	-4.653	-8.748	1.00	0.00 H
ATOM	343	2HD	LYS A	27140.146	-4.782	-9.880	1.00	0.00 H
ATOM	344	1HE	LYS A	27139.173	-6.816	-10.221	1.00	0.00 H
ATOM	345	2HE	LYS A	27140.267	-7.233	-8.902	1.00	0.00 H
ATOM	346	1HZ	LYS A	27138.386	-8.065	-8.021	1.00	0.00 H
ATOM	347	2HZ	LYS A	27137.368	-7.059	-8.922	1.00	0.00 H
ATOM	348	3HZ	LYS A	27138.126	-6.466	-7.532	1.00	0.00 H
ATOM	349	N	GLU A	28144.336	-7.910	-7.512	1.00	0.00 N
ATOM	350	CA	GLU A	28145.506	-8.625	-8.008	1.00	0.00 C
ATOM	351	C	GLU A	28145.304	-10.134	-7.909	1.00	0.00 C
ATOM	352	O	GLU A	28144.222	-10.604	-7.555	1.00	0.00 O
ATOM	353	CB	GLU A	28146.753	-8.211	-7.224	1.00	0.00 C
ATOM	354	CG	GLU A	28147.925	-7.818	-8.108	1.00	0.00 C

ATOM	355	CD	GLU A	28149.250	-7.857	-7.373	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.698	-6.791	-6.900	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.840	-8.953	-7.271	1.00	0.00	O
ATOM	358	H	GLU A	28143.634	-8.408	-7.044	1.00	0.00	H
ATOM	359	HA	GLU A	28145.640	-8.360	-9.046	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.505	-7.368	-6.596	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.064	-9.035	-6.598	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.974	-8.500	-8.943	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.762	-6.814	-8.474	1.00	0.00	H
ATOM	364	N	ASN A	29146.352	-10.887	-8.224	1.00	0.00	N
ATOM	365	CA	ASN A	29146.291	-12.343	-8.170	1.00	0.00	C
ATOM	366	C	ASN A	29146.243	-12.833	-6.724	1.00	0.00	C
ATOM	367	O	ASN A	29145.308	-13.528	-6.327	1.00	0.00	O
ATOM	368	CB	ASN A	29147.497	-12.952	-8.888	1.00	0.00	C
ATOM	369	CG	ASN A	29147.184	-13.332	-10.322	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.964	-14.502	-10.633	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.164	-12.340	-11.206	1.00	0.00	N
ATOM	372	H	ASN A	29147.187	-10.454	-8.498	1.00	0.00	H
ATOM	373	HA	ASN A	29145.388	-12.655	-8.673	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.304	-12.235	-8.894	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.813	-13.840	-8.361	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.348	-11.432	-10.887	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.964	-12.557	-12.141	1.00	0.00	H
ATOM	378	N	PRO A	30147.256	-12.475	-5.915	1.00	0.00	N
ATOM	379	CA	PRO A	30147.323	-12.883	-4.510	1.00	0.00	C
ATOM	380	C	PRO A	30146.375	-12.074	-3.625	1.00	0.00	C
ATOM	381	O	PRO A	30146.600	-10.886	-3.390	1.00	0.00	O

ATOM	382	CB	PRO A	30148.776	-12.596	-4.136	1.00	0.00 C
ATOM	383	CG	PRO A	30149.176	-11.466	-5.020	1.00	0.00 C
ATOM	384	CD	PRO A	30148.413	-11.647	-6.307	1.00	0.00 C
ATOM	385	HA	PRO A	30147.119	-13.936	-4.392	1.00	0.00 H
ATOM	386	1HB	PRO A	30148.836	-12.324	-3.093	1.00	0.00 H
ATOM	387	2HB	PRO A	30149.379	-13.473	-4.321	1.00	0.00 H
ATOM	388	1HG	PRO A	30148.909	-10.527	-4.557	1.00	0.00 H
ATOM	389	2HG	PRO A	30150.238	-11.504	-5.207	1.00	0.00 H
ATOM	390	1HD	PRO A	30148.090	-10.692	-6.690	1.00	0.00 H
ATOM	391	2HD	PRO A	30149.023	-12.160	-7.036	1.00	0.00 H
ATOM	392	N	PRO A	31145.299	-12.705	-3.121	1.00	0.00 N
ATOM	393	CA	PRO A	31144.321	-12.029	-2.261	1.00	0.00 C
ATOM	394	C	PRO A	31144.903	-11.667	-0.899	1.00	0.00 C
ATOM	395	O	PRO A	31144.919	-12.489	0.018	1.00	0.00 O
ATOM	396	CB	PRO A	31143.202	-13.061	-2.109	1.00	0.00 C
ATOM	397	CG	PRO A	31143.863	-14.375	-2.339	1.00	0.00 C
ATOM	398	CD	PRO A	31144.949	-14.120	-3.347	1.00	0.00 C
ATOM	399	HA	PRO A	31143.932	-11.138	-2.731	1.00	0.00 H
ATOM	400	1HB	PRO A	31142.783	-12.998	-1.115	1.00	0.00 H
ATOM	401	2HB	PRO A	31142.433	-12.873	-2.842	1.00	0.00 H
ATOM	402	1HG	PRO A	31144.287	-14.739	-1.415	1.00	0.00 H
ATOM	403	2HG	PRO A	31143.147	-15.083	-2.731	1.00	0.00 H
ATOM	404	1HD	PRO A	31145.797	-14.762	-3.159	1.00	0.00 H
ATOM	405	2HD	PRO A	31144.576	-14.269	-4.350	1.00	0.00 H
ATOM	406	N	PHE A	32145.381	-10.433	-0.773	1.00	0.00 N
ATOM	407	CA	PHE A	32145.964	-9.962	0.477	1.00	0.00 C
ATOM	408	C	PHE A	32145.145	-8.815	1.062	1.00	0.00 C

ATOM	409	O	PHE A	32144.214	-8.318	0.429	1.00	0.00	O
ATOM	410	CB	PHE A	32147.408	-9.509	0.251	1.00	0.00	C
ATOM	411	CG	PHE A	32147.563	-8.546	-0.891	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.148	-7.230	-0.765	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.123	-8.957	-2.089	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.290	-6.342	-1.814	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.267	-8.074	-3.142	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.850	-6.764	-3.004	1.00	0.00	C
ATOM	417	H	PHE A	32145.339	-9.824	-1.540	1.00	0.00	H
ATOM	418	HA	PHE A	32145.959	-10.785	1.177	1.00	0.00	H
ATOM	419	1HB	PHE A	32147.769	-9.024	1.146	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.020	-10.375	0.045	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.710	-6.898	0.165	1.00	0.00	H
ATOM	422	HD2	PHE A	32148.449	-9.981	-2.198	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.963	-5.318	-1.704	1.00	0.00	H
ATOM	424	HE2	PHE A	32148.705	-8.407	-4.071	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.962	-6.072	-3.825	1.00	0.00	H
ATOM	426	N	TYR A	33145.499	-8.400	2.274	1.00	0.00	N
ATOM	427	CA	TYR A	33144.798	-7.311	2.945	1.00	0.00	C
ATOM	428	C	TYR A	33145.784	-6.357	3.611	1.00	0.00	C
ATOM	429	O	TYR A	33146.646	-6.779	4.381	1.00	0.00	O
ATOM	430	CB	TYR A	33143.825	-7.868	3.986	1.00	0.00	C
ATOM	431	CG	TYR A	33142.526	-8.368	3.396	1.00	0.00	C
ATOM	432	CD1	TYR A	33141.669	-7.506	2.726	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.158	-9.703	3.510	1.00	0.00	C
ATOM	434	CE1	TYR A	33140.480	-7.959	2.185	1.00	0.00	C
ATOM	435	CE2	TYR A	33140.973	-10.164	2.972	1.00	0.00	C

ATOM	436	CZ	TYR A	33140.137	-9.289	2.311	1.00	0.00	C
ATOM	437	OH	TYR A	33138.955	-9.745	1.775	1.00	0.00	O
ATOM	438	H	TYR A	33146.251	-8.836	2.728	1.00	0.00	H
ATOM	439	HA	TYR A	33144.238	-6.768	2.198	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.294	-8.692	4.501	1.00	0.00	H
ATOM	441	2HB	TYR A	33143.590	-7.092	4.700	1.00	0.00	H
ATOM	442	HD1	TYR A	33141.940	-6.465	2.628	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.815	-10.386	4.029	1.00	0.00	H
ATOM	444	HE1	TYR A	33139.826	-7.274	1.666	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.704	-11.206	3.072	1.00	0.00	H
ATOM	446	HH	TYR A	33138.298	-9.828	2.469	1.00	0.00	H
ATOM	447	N	GLY A	34145.651	-5.070	3.307	1.00	0.00	N
ATOM	448	CA	GLY A	34146.537	-4.077	3.886	1.00	0.00	C
ATOM	449	C	GLY A	34145.804	-2.819	4.308	1.00	0.00	C
ATOM	450	O	GLY A	34144.764	-2.480	3.743	1.00	0.00	O
ATOM	451	H	GLY A	34144.946	-4.792	2.687	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.024	-4.505	4.749	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.289	-3.814	3.156	1.00	0.00	H
ATOM	454	N	VAL A	35146.346	-2.128	5.305	1.00	0.00	N
ATOM	455	CA	VAL A	35145.736	-0.901	5.804	1.00	0.00	C
ATOM	456	C	VAL A	35146.431	0.330	5.231	1.00	0.00	C
ATOM	457	O	VAL A	35147.642	0.322	5.004	1.00	0.00	O
ATOM	458	CB	VAL A	35145.779	-0.837	7.344	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.217	-0.819	7.843	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.015	0.376	7.851	1.00	0.00	C
ATOM	461	H	VAL A	35147.176	-2.450	5.715	1.00	0.00	H
ATOM	462	HA	VAL A	35144.701	-0.894	5.493	1.00	0.00	H

ATOM	463	HB	VAL A	35145.301	-1.725	7.733	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.875	-1.161	7.059	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.309	-1.469	8.701	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.487	0.189	8.125	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.349	1.258	7.325	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.194	0.499	8.909	1.00	0.00	H
ATOM	469	3HG2	VAL A	35143.958	0.233	7.680	1.00	0.00	H
ATOM	470	N	ILE A	36145.660	1.386	4.999	1.00	0.00	N
ATOM	471	CA	ILE A	36146.203	2.624	4.454	1.00	0.00	C
ATOM	472	C	ILE A	36147.172	3.275	5.434	1.00	0.00	C
ATOM	473	O	ILE A	36146.898	3.358	6.631	1.00	0.00	O
ATOM	474	CB	ILE A	36145.085	3.628	4.109	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.024	2.962	3.230	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.664	4.852	3.414	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.872	3.878	2.875	1.00	0.00	C
ATOM	478	H	ILE A	36144.702	1.332	5.201	1.00	0.00	H
ATOM	479	HA	ILE A	36146.734	2.383	3.544	1.00	0.00	H
ATOM	480	HB	ILE A	36144.627	3.952	5.031	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.482	2.636	2.309	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.620	2.106	3.750	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.797	5.645	4.134	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.990	5.179	2.637	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.620	4.599	2.978	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.416	3.542	1.956	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.239	4.886	2.749	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.139	3.858	3.668	1.00	0.00	H
ATOM	489	N	ARG A	37148.308	3.734	4.920	1.00	0.00	N

ATOM	490	CA	ARG A	37149.320	4.376	5.750	1.00	0.00	C
ATOM	491	C	ARG A	37149.586	5.803	5.282	1.00	0.00	C
ATOM	492	O	ARG A	37149.349	6.762	6.015	1.00	0.00	O
ATOM	493	CB	ARG A	37150.618	3.568	5.724	1.00	0.00	C
ATOM	494	CG	ARG A	37150.417	2.085	5.989	1.00	0.00	C
ATOM	495	CD	ARG A	37149.715	1.846	7.317	1.00	0.00	C
ATOM	496	NE	ARG A	37150.302	2.636	8.396	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.687	2.887	9.550	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.468	2.412	9.778	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.290	3.616	10.478	1.00	0.00	N
ATOM	500	H	ARG A	37148.470	3.638	3.958	1.00	0.00	H
ATOM	501	HA	ARG A	37148.948	4.407	6.763	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.079	3.679	4.753	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.288	3.958	6.476	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.818	1.665	5.196	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.382	1.599	6.010	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.674	2.115	7.212	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.793	0.798	7.567	1.00	0.00	H
ATOM	508	HE	ARG A	37151.201	2.999	8.255	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.007	1.862	9.082	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.011	2.605	10.646	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.209	3.977	10.312	1.00	0.00	H
ATOM	512	2HH2	ARG A	37149.828	3.806	11.345	1.00	0.00	H
ATOM	513	N	TRPA	38150.083	5.936	4.055	1.00	0.00	N
ATOM	514	CA	TRPA	38150.382	7.248	3.491	1.00	0.00	C
ATOM	515	C	TRPA	38149.644	7.456	2.172	1.00	0.00	C
ATOM	516	O	TRPA	38149.633	6.579	1.308	1.00	0.00	O

ATOM	517	CB	TRP A	38151.892	7.404	3.276	1.00	0.00 C
ATOM	518	CG	TRP A	38152.262	8.620	2.479	1.00	0.00 C
ATOM	519	CD1	TRP A	38152.533	9.868	2.963	1.00	0.00 C
ATOM	520	CD2	TRP A	38152.396	8.703	1.055	1.00	0.00 C
ATOM	521	NE1	TRP A	38152.827	10.721	1.926	1.00	0.00 N
ATOM	522	CE2	TRP A	38152.751	10.030	0.745	1.00	0.00 C
ATOM	523	CE3	TRP A	38152.252	7.784	0.013	1.00	0.00 C
ATOM	524	CZ2	TRP A	38152.962	10.458	-0.563	1.00	0.00 C
ATOM	525	CZ3	TRP A	38152.463	8.210	-1.286	1.00	0.00 C
ATOM	526	CH2	TRP A	38152.814	9.536	-1.565	1.00	0.00 C
ATOM	527	H	TRP A	38150.253	5.134	3.518	1.00	0.00 H
ATOM	528	HA	TRP A	38150.049	7.995	4.196	1.00	0.00 H
ATOM	529	1HB	TRP A	38152.379	7.476	4.237	1.00	0.00 H
ATOM	530	2HB	TRP A	38152.266	6.535	2.754	1.00	0.00 H
ATOM	531	HD1	TRP A	38152.514	10.132	4.010	1.00	0.00 H
ATOM	532	HE1	TRP A	38153.056	11.670	2.018	1.00	0.00 H
ATOM	533	HE3	TRP A	38151.981	6.759	0.207	1.00	0.00 H
ATOM	534	HZ2	TRP A	38153.231	11.478	-0.795	1.00	0.00 H
ATOM	535	HZ3	TRP A	38152.355	7.513	-2.104	1.00	0.00 H
ATOM	536	HH2	TRP A	38152.969	9.824	-2.593	1.00	0.00 H
ATOM	537	N	ILE A	39149.036	8.627	2.024	1.00	0.00 N
ATOM	538	CA	ILE A	39148.303	8.964	0.811	1.00	0.00 C
ATOM	539	C	ILE A	39148.816	10.273	0.222	1.00	0.00 C
ATOM	540	O	ILE A	39148.549	11.350	0.755	1.00	0.00 O
ATOM	541	CB	ILE A	39146.790	9.092	1.081	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.274	7.856	1.822	1.00	0.00 C
ATOM	543	CG2	ILE A	39146.032	9.287	-0.224	1.00	0.00 C

ATOM	544	CD1	ILE A	39145.101	8.145	2.733	1.00	0.00	C
ATOM	545	H	ILE A	39149.088	9.286	2.747	1.00	0.00	H
ATOM	546	HA	ILE A	39148.456	8.172	0.093	1.00	0.00	H
ATOM	547	HB	ILE A	39146.629	9.965	1.695	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.960	7.118	1.101	1.00	0.00	H
ATOM	549	2HG1	ILE A	39147.071	7.447	2.425	1.00	0.00	H
ATOM	550	1HG2	ILE A	39145.622	8.342	-0.547	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.707	9.664	-0.979	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.231	9.995	-0.073	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.233	8.383	2.137	1.00	0.00	H
ATOM	554	2HD1	ILE A	39145.340	8.981	3.373	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.894	7.275	3.339	1.00	0.00	H
ATOM	556	N	GLY A	40149.562	10.175	-0.874	1.00	0.00	N
ATOM	557	CA	GLY A	40150.105	11.364	-1.504	1.00	0.00	C
ATOM	558	C	GLY A	40150.637	11.098	-2.898	1.00	0.00	C
ATOM	559	O	GLY A	40150.426	10.024	-3.459	1.00	0.00	O
ATOM	560	H	GLY A	40149.748	9.291	-1.254	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.331	12.112	-1.563	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.908	11.743	-0.891	1.00	0.00	H
ATOM	563	N	GLN A	41151.328	12.086	-3.457	1.00	0.00	N
ATOM	564	CA	GLN A	41151.895	11.967	-4.793	1.00	0.00	C
ATOM	565	C	GLN A	41153.376	12.344	-4.788	1.00	0.00	C
ATOM	566	O	GLN A	41153.728	13.492	-4.515	1.00	0.00	O
ATOM	567	CB	GLN A	41151.130	12.866	-5.763	1.00	0.00	C
ATOM	568	CG	GLN A	41149.620	12.715	-5.668	1.00	0.00	C
ATOM	569	CD	GLN A	41148.895	14.042	-5.778	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.894	14.842	-4.843	1.00	0.00	O

ATOM	571	NE2	GLN A	41148.272	14.279	-6.925	1.00	0.00	N
ATOM	572	H	GLN A	41151.459	12.918	-2.958	1.00	0.00	H
ATOM	573	HA	GLN A	41151.792	10.941	-5.109	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.379	13.894	-5.556	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.432	12.627	-6.770	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.283	12.072	-6.467	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.375	12.265	-4.717	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.316	13.594	-7.625	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.796	15.129	-7.027	1.00	0.00	H
ATOM	580	N	PRO A	42154.268	11.383	-5.087	1.00	0.00	N
ATOM	581	CA	PRO A	42155.715	11.629	-5.110	1.00	0.00	C
ATOM	582	C	PRO A	42156.096	12.747	-6.075	1.00	0.00	C
ATOM	583	O	PRO A	42155.335	13.080	-6.984	1.00	0.00	O
ATOM	584	CB	PRO A	42156.302	10.294	-5.578	1.00	0.00	C
ATOM	585	CG	PRO A	42155.260	9.283	-5.249	1.00	0.00	C
ATOM	586	CD	PRO A	42153.945	9.985	-5.423	1.00	0.00	C
ATOM	587	HA	PRO A	42156.090	11.865	-4.124	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.493	10.335	-6.641	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.223	10.097	-5.049	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.331	8.445	-5.926	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.376	8.954	-4.227	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.605	9.903	-6.446	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.209	9.585	-4.743	1.00	0.00	H
ATOM	594	N	PRO A	43157.285	13.342	-5.890	1.00	0.00	N
ATOM	595	CA	PRO A	43157.767	14.428	-6.748	1.00	0.00	C
ATOM	596	C	PRO A	43158.173	13.935	-8.132	1.00	0.00	C
ATOM	597	O	PRO A	43159.339	13.621	-8.371	1.00	0.00	O

ATOM	598	CB	PRO A	43158.985	14.962	-5.996	1.00	0.00	C
ATOM	599	CG	PRO A	43159.475	13.802	-5.200	1.00	0.00	C
ATOM	600	CD	PRO A	43158.254	13.005	-4.829	1.00	0.00	C
ATOM	601	HA	PRO A	43157.029	15.211	-6.848	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.727	15.298	-6.705	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.689	15.781	-5.358	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.145	13.204	-5.799	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.978	14.153	-4.312	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.478	11.948	-4.834	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.885	13.309	-3.860	1.00	0.00	H
ATOM	608	N	GLY A	44157.207	13.870	-9.040	1.00	0.00	N
ATOM	609	CA	GLY A	44157.488	13.414	-10.387	1.00	0.00	C
ATOM	610	C	GLY A	44156.252	12.910	-11.101	1.00	0.00	C
ATOM	611	O	GLY A	44155.972	13.313	-12.231	1.00	0.00	O
ATOM	612	H	GLY A	44156.296	14.134	-8.793	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.906	14.235	-10.951	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.214	12.617	-10.341	1.00	0.00	H
ATOM	615	N	LEU A	45155.510	12.027	-10.443	1.00	0.00	N
ATOM	616	CA	LEU A	45154.295	11.469	-11.028	1.00	0.00	C
ATOM	617	C	LEU A	45153.086	11.765	-10.150	1.00	0.00	C
ATOM	618	O	LEU A	45152.975	11.248	-9.038	1.00	0.00	O
ATOM	619	CB	LEU A	45154.444	9.959	-11.218	1.00	0.00	C
ATOM	620	CG	LEU A	45154.988	9.203	-10.004	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.629	7.726	-10.087	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.495	9.388	-9.894	1.00	0.00	C
ATOM	623	H	LEU A	45155.782	11.746	-9.543	1.00	0.00	H
ATOM	624	HA	LEU A	45154.148	11.931	-11.991	1.00	0.00	H

ATOM	625	1HB	LEU A	45153.475	9.551 -11.466	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.111	9.787 -12.049	1.00	0.00	H
ATOM	627	HG	LEU A	45154.535	9.607 -9.109	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.985	7.558 -10.938	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.117	7.429 -9.184	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.531	7.142 -10.197	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.875	9.815 -10.811	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.964	8.431 -9.722	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.717	10.051 -9.070	1.00	0.00	H
ATOM	634	N	ASN A	46152.178	12.595 -10.653	1.00	0.00	N
ATOM	635	CA	ASN A	46150.981	12.946 -9.903	1.00	0.00	C
ATOM	636	C	ASN A	46150.007	11.773 -9.876	1.00	0.00	C
ATOM	637	O	ASN A	46149.382	11.447 -10.884	1.00	0.00	O
ATOM	638	CB	ASN A	46150.308	14.173 -10.523	1.00	0.00	C
ATOM	639	CG	ASN A	46149.087	14.620 -9.744	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.139	15.592 -8.989	1.00	0.00	O
ATOM	641	ND2	ASN A	46147.978	13.912 -9.923	1.00	0.00	N
ATOM	642	H	ASN A	46152.317	12.977 -11.545	1.00	0.00	H
ATOM	643	HA	ASN A	46151.277	13.178 -8.890	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.014	14.989 -10.547	1.00	0.00	H
ATOM	645	2HB	ASN A	46150.002	13.936 -11.531	1.00	0.00	H
ATOM	646	1HD2	ASN A	46148.010	13.150 -10.539	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.173	14.179 -9.431	1.00	0.00	H
ATOM	648	N	GLU A	47149.886	11.143 -8.714	1.00	0.00	N
ATOM	649	CA	GLU A	47148.991	10.003 -8.548	1.00	0.00	C
ATOM	650	C	GLU A	47148.795	9.679 -7.072	1.00	0.00	C
ATOM	651	O	GLU A	47149.757	9.386 -6.360	1.00	0.00	O

ATOM	652	CB	GLU A	47149.544	8.780	-9.283	1.00	0.00	C
ATOM	653	CG	GLU A	47151.053	8.631	-9.175	1.00	0.00	C
ATOM	654	CD	GLU A	47151.612	7.635	-10.172	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.051	6.547	-9.742	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.611	7.942	-11.382	1.00	0.00	O
ATOM	657	H	GLU A	47150.413	11.450	-7.947	1.00	0.00	H
ATOM	658	HA	GLU A	47148.035	10.269	-8.975	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.085	7.892	-8.873	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.285	8.856	-10.329	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.509	9.591	-9.354	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.299	8.297	-8.178	1.00	0.00	H
ATOM	663	N	VAL A	48147.550	9.722	-6.615	1.00	0.00	N
ATOM	664	CA	VAL A	48147.242	9.421	-5.223	1.00	0.00	C
ATOM	665	C	VAL A	48147.544	7.961	-4.911	1.00	0.00	C
ATOM	666	O	VAL A	48146.763	7.070	-5.245	1.00	0.00	O
ATOM	667	CB	VAL A	48145.766	9.714	-4.894	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.506	9.548	-3.405	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.379	11.112	-5.356	1.00	0.00	C
ATOM	670	H	VAL A	48146.821	9.956	-7.228	1.00	0.00	H
ATOM	671	HA	VAL A	48147.863	10.050	-4.600	1.00	0.00	H
ATOM	672	HB	VAL A	48145.151	9.001	-5.424	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.621	8.509	-3.133	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.501	9.870	-3.176	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.211	10.146	-2.848	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.377	11.783	-4.511	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.394	11.086	-5.797	1.00	0.00	H
ATOM	678	3HG2	VAL A	48146.092	11.459	-6.089	1.00	0.00	H

ATOM	679	N	LEU A	49148.686	7.722	-4.274	1.00	0.00	N
ATOM	680	CA	LEU A	49149.095	6.369	-3.922	1.00	0.00	C
ATOM	681	C	LEU A	49148.953	6.132	-2.425	1.00	0.00	C
ATOM	682	O	LEU A	49149.654	6.746	-1.620	1.00	0.00	O
ATOM	683	CB	LEU A	49150.541	6.122	-4.355	1.00	0.00	C
ATOM	684	CG	LEU A	49150.814	6.327	-5.847	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.298	6.555	-6.090	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.318	5.131	-6.647	1.00	0.00	C
ATOM	687	H	LEU A	49149.268	8.474	-4.036	1.00	0.00	H
ATOM	688	HA	LEU A	49148.448	5.681	-4.446	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.181	6.791	-3.798	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.802	5.106	-4.101	1.00	0.00	H
ATOM	691	HG	LEU A	49150.282	7.203	-6.187	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.427	7.234	-6.919	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.774	5.613	-6.320	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.747	6.979	-5.205	1.00	0.00	H
ATOM	695	1HD2	LEU A	49150.366	4.243	-6.034	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.940	5.000	-7.520	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.298	5.303	-6.954	1.00	0.00	H
ATOM	698	N	ALAA	50148.042	5.240	-2.056	1.00	0.00	N
ATOM	699	CA	ALAA	50147.812	4.926	-0.654	1.00	0.00	C
ATOM	700	C	ALAA	50148.671	3.747	-0.208	1.00	0.00	C
ATOM	701	O	ALAA	50148.497	2.626	-0.684	1.00	0.00	O
ATOM	702	CB	ALAA	50146.339	4.630	-0.414	1.00	0.00	C
ATOM	703	H	ALAA	50147.513	4.783	-2.742	1.00	0.00	H
ATOM	704	HA	ALAA	50148.080	5.796	-0.072	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.190	3.561	-0.361	1.00	0.00	H

ATOM	706	2HB	ALA A	50145.753	5.036	-1.225	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.028	5.082	0.517	1.00	0.00	H
ATOM	708	N	GLY A	51149.597	4.008	0.708	1.00	0.00	N
ATOM	709	CA	GLY A	51150.468	2.958	1.202	1.00	0.00	C
ATOM	710	C	GLY A	51149.713	1.900	1.982	1.00	0.00	C
ATOM	711	O	GLY A	51149.055	2.203	2.976	1.00	0.00	O
ATOM	712	H	GLY A	51149.690	4.921	1.053	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.959	2.489	0.362	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.216	3.398	1.845	1.00	0.00	H
ATOM	715	N	LEU A	52149.807	0.654	1.530	1.00	0.00	N
ATOM	716	CA	LEU A	52149.126	-0.452	2.192	1.00	0.00	C
ATOM	717	C	LEU A	52150.130	-1.409	2.827	1.00	0.00	C
ATOM	718	O	LEU A	52151.050	-1.890	2.165	1.00	0.00	O
ATOM	719	CB	LEU A	52148.244	-1.207	1.196	1.00	0.00	C
ATOM	720	CG	LEU A	52147.058	-0.410	0.649	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.479	-1.094	-0.580	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.992	-0.242	1.721	1.00	0.00	C
ATOM	723	H	LEU A	52150.347	0.474	0.732	1.00	0.00	H
ATOM	724	HA	LEU A	52148.501	-0.039	2.970	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.862	-1.514	0.364	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.862	-2.091	1.683	1.00	0.00	H
ATOM	727	HG	LEU A	52147.398	0.572	0.356	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.128	-0.346	-1.275	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.655	-1.725	-0.285	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.243	-1.694	-1.051	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.248	-1.018	1.614	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.522	0.725	1.612	1.00	0.00	H

ATOM	733	3HD2	LEU A	52146.448	-0.312	2.697	1.00	0.00	H
ATOM	734	N	GLU A	53149.947	-1.681	4.115	1.00	0.00	N
ATOM	735	CA	GLU A	53150.836	-2.581	4.842	1.00	0.00	C
ATOM	736	C	GLU A	53150.262	-3.993	4.885	1.00	0.00	C
ATOM	737	O	GLU A	53149.252	-4.244	5.543	1.00	0.00	O
ATOM	738	CB	GLU A	53151.064	-2.068	6.264	1.00	0.00	C
ATOM	739	CG	GLU A	53152.012	-2.933	7.078	1.00	0.00	C
ATOM	740	CD	GLU A	53151.582	-3.065	8.526	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.978	-4.057	9.174	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.850	-2.178	9.012	1.00	0.00	O
ATOM	743	H	GLU A	53149.195	-1.267	4.589	1.00	0.00	H
ATOM	744	HA	GLU A	53151.780	-2.604	4.321	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.476	-1.070	6.213	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.114	-2.029	6.778	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.049	-3.917	6.638	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.996	-2.489	7.050	1.00	0.00	H
ATOM	749	N	LEU A	54150.912	-4.913	4.179	1.00	0.00	N
ATOM	750	CA	LEU A	54150.466	-6.301	4.137	1.00	0.00	C
ATOM	751	C	LEU A	54150.720	-6.995	5.472	1.00	0.00	C
ATOM	752	O	LEU A	54151.833	-6.966	5.996	1.00	0.00	O
ATOM	753	CB	LEU A	54151.180	-7.055	3.014	1.00	0.00	C
ATOM	754	CG	LEU A	54151.124	-6.379	1.643	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.325	-6.780	0.802	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.829	-6.734	0.928	1.00	0.00	C
ATOM	757	H	LEU A	54151.711	-4.652	3.675	1.00	0.00	H
ATOM	758	HA	LEU A	54149.405	-6.301	3.941	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.218	-7.173	3.292	1.00	0.00	H

ATOM	760	2HB	LEU A	54150.735	-8.035	2.926	1.00	0.00 H
ATOM	761	HG	LEU A	54151.151	-5.308	1.775	1.00	0.00 H
ATOM	762	1HD1	LEU A	54152.606	-7.797	1.034	1.00	0.00 H
ATOM	763	2HD1	LEU A	54153.152	-6.120	1.018	1.00	0.00 H
ATOM	764	3HD1	LEU A	54152.071	-6.708	-0.246	1.00	0.00 H
ATOM	765	1HD2	LEU A	54148.988	-6.414	1.527	1.00	0.00 H
ATOM	766	2HD2	LEU A	54149.779	-7.803	0.782	1.00	0.00 H
ATOM	767	3HD2	LEU A	54149.798	-6.238	-0.030	1.00	0.00 H
ATOM	768	N	GLU A	55149.679	-7.618	6.016	1.00	0.00 N
ATOM	769	CA	GLU A	55149.791	-8.320	7.289	1.00	0.00 C
ATOM	770	C	GLU A	55150.792	-9.466	7.192	1.00	0.00 C
ATOM	771	O	GLU A	55151.461	-9.804	8.168	1.00	0.00 O
ATOM	772	CB	GLU A	55148.424	-8.856	7.721	1.00	0.00 C
ATOM	773	CG	GLU A	55147.393	-7.766	7.967	1.00	0.00 C
ATOM	774	CD	GLU A	55146.208	-8.256	8.774	1.00	0.00 C
ATOM	775	OE1	GLU A	55146.424	-8.798	9.878	1.00	0.00 O
ATOM	776	OE2	GLU A	55145.061	-8.098	8.301	1.00	0.00 O
ATOM	777	H	GLU A	55148.817	-7.606	5.550	1.00	0.00 H
ATOM	778	HA	GLU A	55150.140	-7.614	8.027	1.00	0.00 H
ATOM	779	1HB	GLU A	55148.047	-9.510	6.950	1.00	0.00 H
ATOM	780	2HB	GLU A	55148.544	-9.420	8.634	1.00	0.00 H
ATOM	781	1HG	GLU A	55147.865	-6.957	8.505	1.00	0.00 H
ATOM	782	2HG	GLU A	55147.037	-7.403	7.013	1.00	0.00 H
ATOM	783	N	ASP A	56150.887	-10.062	6.007	1.00	0.00 N
ATOM	784	CA	ASP A	56151.807	-11.171	5.782	1.00	0.00 C
ATOM	785	C	ASP A	56153.176	-10.660	5.344	1.00	0.00 C
ATOM	786	O	ASP A	56153.277	-9.692	4.590	1.00	0.00 O

ATOM	787	CB	ASPA	56151.242 -12.122	4.724	1.00	0.00	C
ATOM	788	CG	ASPA	56150.016 -12.867	5.213	1.00	0.00	C
ATOM	789	OD1	ASPA	56149.315 -12.338	6.102	1.00	0.00	O
ATOM	790	OD2	ASPA	56149.756 -13.978	4.706	1.00	0.00	O
ATOM	791	H	ASPA	56150.327 -9.747	5.268	1.00	0.00	H
ATOM	792	HA	ASPA	56151.916 -11.706	6.713	1.00	0.00	H
ATOM	793	1HB	ASPA	56150.969 -11.554	3.848	1.00	0.00	H
ATOM	794	2HB	ASPA	56151.999 -12.845	4.460	1.00	0.00	H
ATOM	795	N	GLU A	57154.228 -11.318	5.821	1.00	0.00	N
ATOM	796	CA	GLU A	57155.591 -10.931	5.478	1.00	0.00	C
ATOM	797	C	GLU A	57156.010 -11.538	4.143	1.00	0.00	C
ATOM	798	O	GLU A	57156.389 -12.708	4.074	1.00	0.00	O
ATOM	799	CB	GLU A	57156.560 -11.369	6.578	1.00	0.00	C
ATOM	800	CG	GLU A	57156.757 -10.326	7.666	1.00	0.00	C
ATOM	801	CD	GLU A	57158.201 -10.219	8.116	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.443 -10.236	9.341	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.090 -10.120	7.244	1.00	0.00	O
ATOM	804	H	GLU A	57154.084 -12.083	6.417	1.00	0.00	H
ATOM	805	HA	GLU A	57155.618 -9.855	5.394	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.181 -12.270	7.037	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.521 -11.579	6.132	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.443 -9.365	7.287	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.148 -10.593	8.516	1.00	0.00	H
ATOM	810	N	CYS A	58155.939 -10.737	3.086	1.00	0.00	N
ATOM	811	CA	CYS A	58156.312 -11.196	1.753	1.00	0.00	C
ATOM	812	C	CYS A	58157.706 -10.705	1.378	1.00	0.00	C
ATOM	813	O	CYS A	58157.990 -9.508	1.434	1.00	0.00	O

ATOM	814	CB	CYS A	58155.293	-10.710	0.720	1.00	0.00	C
ATOM	815	SG	CYS A	58154.970	-11.892	-0.610	1.00	0.00	S
ATOM	816	H	CYS A	58155.630	-9.814	3.204	1.00	0.00	H
ATOM	817	HA	CYS A	58156.313	-12.275	1.762	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.355	-10.512	1.217	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.655	-9.797	0.269	1.00	0.00	H
ATOM	820	HG	CYS A	58155.668	-11.801	-1.262	1.00	0.00	H
ATOM	821	N	ALA A	59158.573	-11.637	0.996	1.00	0.00	N
ATOM	822	CA	ALA A	59159.939	-11.299	0.612	1.00	0.00	C
ATOM	823	C	ALA A	59159.962	-10.500	-0.687	1.00	0.00	C
ATOM	824	O	ALA A	59159.391	-10.918	-1.695	1.00	0.00	O
ATOM	825	CB	ALA A	59160.774	-12.562	0.473	1.00	0.00	C
ATOM	826	H	ALA A	59158.289	-12.574	0.971	1.00	0.00	H
ATOM	827	HA	ALA A	59160.367	-10.697	1.401	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.326	-13.212	-0.264	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.818	-13.072	1.424	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.774	-12.299	0.160	1.00	0.00	H
ATOM	831	N	GLY A	60160.626	-9.350	-0.656	1.00	0.00	N
ATOM	832	CA	GLY A	60160.712	-8.510	-1.837	1.00	0.00	C
ATOM	833	C	GLY A	60159.849	-7.269	-1.730	1.00	0.00	C
ATOM	834	O	GLY A	60159.386	-6.737	-2.739	1.00	0.00	O
ATOM	835	H	GLY A	60161.061	-9.068	0.175	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.740	-8.211	-1.978	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.394	-9.083	-2.696	1.00	0.00	H
ATOM	838	N	CYS A	61159.632	-6.805	-0.503	1.00	0.00	N
ATOM	839	CA	CYS A	61158.819	-5.618	-0.266	1.00	0.00	C
ATOM	840	C	CYS A	61159.616	-4.552	0.480	1.00	0.00	C

ATOM	841	O	CYS A	61160.817	-4.705	0.703	1.00	0.00	O
ATOM	842	CB	CYS A	61157.564	-5.983	0.530	1.00	0.00	C
ATOM	843	SG	CYS A	61156.594	-7.324	-0.199	1.00	0.00	S
ATOM	844	H	CYS A	61160.029	-7.273	0.262	1.00	0.00	H
ATOM	845	HA	CYS A	61158.523	-5.222	-1.226	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.855	-6.292	1.523	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.926	-5.115	0.600	1.00	0.00	H
ATOM	848	HG	CYS A	61157.151	-7.784	-0.830	1.00	0.00	H
ATOM	849	N	THR A	62158.940	-3.474	0.862	1.00	0.00	N
ATOM	850	CA	THR A	62159.585	-2.383	1.584	1.00	0.00	C
ATOM	851	C	THR A	62159.088	-2.314	3.024	1.00	0.00	C
ATOM	852	O	THR A	62158.277	-3.134	3.451	1.00	0.00	O
ATOM	853	CB	THR A	62159.322	-1.052	0.877	1.00	0.00	C
ATOM	854	OG1	THR A	62157.934	-0.864	0.664	1.00	0.00	O
ATOM	855	CG2	THR A	62160.011	-0.941	-0.466	1.00	0.00	C
ATOM	856	H	THR A	62157.984	-3.411	0.655	1.00	0.00	H
ATOM	857	HA	THR A	62160.647	-2.573	1.591	1.00	0.00	H
ATOM	858	HB	THR A	62159.682	-0.247	1.501	1.00	0.00	H
ATOM	859	HG1	THR A	62157.781	0.014	0.305	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.343	-1.283	-1.243	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.903	-1.550	-0.464	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.279	0.090	-0.648	1.00	0.00	H
ATOM	863	N	ASP A	63159.579	-1.328	3.767	1.00	0.00	N
ATOM	864	CA	ASP A	63159.185	-1.150	5.160	1.00	0.00	C
ATOM	865	C	ASP A	63158.586	0.236	5.382	1.00	0.00	C
ATOM	866	O	ASP A	63158.719	0.815	6.460	1.00	0.00	O
ATOM	867	CB	ASP A	63160.389	-1.351	6.082	1.00	0.00	C

ATOM	868	CG	ASP A	63161.572	-0.489	5.687	1.00	0.00 C
ATOM	869	OD1	ASP A	63162.241	-0.822	4.686	1.00	0.00 O
ATOM	870	OD2	ASP A	63161.828	0.519	6.377	1.00	0.00 O
ATOM	871	H	ASP A	63160.223	-0.704	3.369	1.00	0.00 H
ATOM	872	HA	ASP A	63158.438	-1.894	5.391	1.00	0.00 H
ATOM	873	1HB	ASP A	63160.106	-1.098	7.093	1.00	0.00 H
ATOM	874	2HB	ASP A	63160.694	-2.387	6.045	1.00	0.00 H
ATOM	875	N	GLY A	64157.927	0.761	4.354	1.00	0.00 N
ATOM	876	CA	GLY A	64157.315	2.073	4.457	1.00	0.00 C
ATOM	877	C	GLY A	64158.031	3.113	3.615	1.00	0.00 C
ATOM	878	O	GLY A	64158.120	4.278	4.002	1.00	0.00 O
ATOM	879	H	GLY A	64157.853	0.252	3.520	1.00	0.00 H
ATOM	880	1HA	GLY A	64156.288	2.007	4.131	1.00	0.00 H
ATOM	881	2HA	GLY A	64157.335	2.387	5.490	1.00	0.00 H
ATOM	882	N	THR A	65158.540	2.691	2.462	1.00	0.00 N
ATOM	883	CA	THR A	65159.250	3.594	1.565	1.00	0.00 C
ATOM	884	C	THR A	65158.857	3.338	0.113	1.00	0.00 C
ATOM	885	O	THR A	65158.795	2.191	-0.331	1.00	0.00 O
ATOM	886	CB	THR A	65160.762	3.429	1.732	1.00	0.00 C
ATOM	887	OG1	THR A	65161.140	2.074	1.562	1.00	0.00 O
ATOM	888	CG2	THR A	65161.267	3.880	3.085	1.00	0.00 C
ATOM	889	H	THR A	65158.435	1.749	2.210	1.00	0.00 H
ATOM	890	HA	THR A	65158.977	4.604	1.827	1.00	0.00 H
ATOM	891	HB	THR A	65161.263	4.018	0.978	1.00	0.00 H
ATOM	892	HG1	THR A	65160.699	1.533	2.222	1.00	0.00 H
ATOM	893	1HG2	THR A	65160.528	3.652	3.840	1.00	0.00 H
ATOM	894	2HG2	THR A	65161.445	4.945	3.066	1.00	0.00 H

ATOM	895	3HG2 THR A	65162.188	3.365	3.315	1.00	0.00	H
ATOM	896	N PHE A	66158.592	4.413	-0.621	1.00	0.00	N
ATOM	897	CA PHE A	66158.205	4.306	-2.023	1.00	0.00	C
ATOM	898	C PHE A	66159.276	4.900	-2.931	1.00	0.00	C
ATOM	899	O PHE A	66159.440	6.118	-3.001	1.00	0.00	O
ATOM	900	CB PHE A	66156.869	5.014	-2.261	1.00	0.00	C
ATOM	901	CG PHE A	66156.256	4.705	-3.597	1.00	0.00	C
ATOM	902	CD1 PHE A	66156.160	3.397	-4.044	1.00	0.00	C
ATOM	903	CD2 PHE A	66155.777	5.724	-4.405	1.00	0.00	C
ATOM	904	CE1 PHE A	66155.596	3.110	-5.272	1.00	0.00	C
ATOM	905	CE2 PHE A	66155.213	5.442	-5.635	1.00	0.00	C
ATOM	906	CZ PHE A	66155.122	4.134	-6.070	1.00	0.00	C
ATOM	907	H PHE A	66158.659	5.301	-0.211	1.00	0.00	H
ATOM	908	HA PHE A	66158.092	3.257	-2.257	1.00	0.00	H
ATOM	909	1HB PHE A	66156.168	4.711	-1.497	1.00	0.00	H
ATOM	910	2HB PHE A	66157.021	6.081	-2.202	1.00	0.00	H
ATOM	911	HD1 PHE A	66156.529	2.596	-3.421	1.00	0.00	H
ATOM	912	HD2 PHE A	66155.847	6.746	-4.067	1.00	0.00	H
ATOM	913	HE1 PHE A	66155.527	2.086	-5.609	1.00	0.00	H
ATOM	914	HE2 PHE A	66154.844	6.244	-6.257	1.00	0.00	H
ATOM	915	HZ PHE A	66154.682	3.912	-7.030	1.00	0.00	H
ATOM	916	N ARG A	67160.003	4.031	-3.626	1.00	0.00	N
ATOM	917	CA ARG A	67161.060	4.468	-4.531	1.00	0.00	C
ATOM	918	C ARG A	67162.112	5.285	-3.786	1.00	0.00	C
ATOM	919	O ARG A	67162.579	6.313	-4.279	1.00	0.00	O
ATOM	920	CB ARG A	67160.472	5.294	-5.677	1.00	0.00	C
ATOM	921	CG ARG A	67159.402	4.559	-6.468	1.00	0.00	C

ATOM	922	CD	ARG A	67158.879	5.405	-7.619	1.00	0.00	C
ATOM	923	NE	ARG A	67159.730	5.304	-8.804	1.00	0.00	N
ATOM	924	CZ	ARG A	67160.781	6.089	-9.035	1.00	0.00	C
ATOM	925	NH1	ARG A	67161.122	7.033	-8.166	1.00	0.00	N
ATOM	926	NH2	ARG A	67161.496	5.927	-10.139	1.00	0.00	N
ATOM	927	H	ARG A	67159.826	3.073	-3.528	1.00	0.00	H
ATOM	928	HA	ARG A	67161.531	3.586	-4.941	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.033	6.194	-5.269	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.266	5.567	-6.354	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.823	3.650	-6.867	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.581	4.319	-5.808	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.886	5.066	-7.874	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.835	6.435	-7.303	1.00	0.00	H
ATOM	935	HE	ARG A	67159.505	4.616	-9.464	1.00	0.00	H
ATOM	936	1HH1	ARG A	67160.590	7.162	-7.331	1.00	0.00	H
ATOM	937	2HH1	ARG A	67161.913	7.617	-8.349	1.00	0.00	H
ATOM	938	1HH2	ARG A	67161.246	5.217	-10.797	1.00	0.00	H
ATOM	939	2HH2	ARG A	67162.286	6.515	-10.315	1.00	0.00	H
ATOM	940	N	GLY A	68162.481	4.821	-2.598	1.00	0.00	N
ATOM	941	CA	GLY A	68163.474	5.520	-1.804	1.00	0.00	C
ATOM	942	C	GLY A	68162.913	6.760	-1.135	1.00	0.00	C
ATOM	943	O	GLY A	68163.640	7.721	-0.885	1.00	0.00	O
ATOM	944	H	GLY A	68162.075	3.997	-2.255	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.847	4.851	-1.043	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.293	5.810	-2.446	1.00	0.00	H
ATOM	947	N	THR A	69161.616	6.737	-0.846	1.00	0.00	N
ATOM	948	CA	THR A	69160.956	7.867	-0.202	1.00	0.00	C

ATOM	949	C	THR A	69160.140	7.406	1.001	1.00	0.00 C
ATOM	950	O	THR A	69158.983	7.009	0.864	1.00	0.00 O
ATOM	951	CB	THR A	69160.050	8.591	-1.201	1.00	0.00 C
ATOM	952	OG1	THR A	69160.750	8.872	-2.399	1.00	0.00 O
ATOM	953	CG2	THR A	69159.500	9.897	-0.671	1.00	0.00 C
ATOM	954	H	THR A	69161.090	5.941	-1.071	1.00	0.00 H
ATOM	955	HA	THR A	69161.721	8.549	0.136	1.00	0.00 H
ATOM	956	HB	THR A	69159.212	7.951	-1.439	1.00	0.00 H
ATOM	957	HG1	THR A	69160.631	8.148	-3.018	1.00	0.00 H
ATOM	958	1HG2	THR A	69158.639	9.701	-0.050	1.00	0.00 H
ATOM	959	2HG2	THR A	69159.211	10.528	-1.499	1.00	0.00 H
ATOM	960	3HG2	THR A	69160.260	10.396	-0.087	1.00	0.00 H
ATOM	961	N	ARG A	70160.751	7.462	2.180	1.00	0.00 N
ATOM	962	CA	ARG A	70160.082	7.049	3.408	1.00	0.00 C
ATOM	963	C	ARG A	70158.900	7.963	3.718	1.00	0.00 C
ATOM	964	O	ARG A	70159.052	9.181	3.807	1.00	0.00 O
ATOM	965	CB	ARG A	70161.067	7.056	4.578	1.00	0.00 C
ATOM	966	CG	ARG A	70160.519	6.409	5.839	1.00	0.00 C
ATOM	967	CD	ARG A	70161.329	6.799	7.064	1.00	0.00 C
ATOM	968	NE	ARG A	70162.742	6.459	6.918	1.00	0.00 N
ATOM	969	CZ	ARG A	70163.611	6.450	7.926	1.00	0.00 C
ATOM	970	NH1	ARG A	70163.216	6.760	9.154	1.00	0.00 N
ATOM	971	NH2	ARG A	70164.877	6.127	7.706	1.00	0.00 N
ATOM	972	H	ARG A	70161.674	7.788	2.225	1.00	0.00 H
ATOM	973	HA	ARG A	70159.715	6.044	3.264	1.00	0.00 H
ATOM	974	1HB	ARG A	70161.960	6.524	4.285	1.00	0.00 H
ATOM	975	2HB	ARG A	70161.327	8.080	4.809	1.00	0.00 H

ATOM	976	1HG	ARG A	70159.496	6.727	5.980	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.552	5.336	5.724	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.239	7.865	7.214	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.930	6.281	7.924	1.00	0.00	H
ATOM	980	HE	ARG A	70163.060	6.225	6.021	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.262	7.004	9.328	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.874	6.751	9.908	1.00	0.00	H
ATOM	983	1HH2	ARG A	70165.181	5.892	6.782	1.00	0.00	H
ATOM	984	2HH2	ARG A	70165.532	6.120	8.463	1.00	0.00	H
ATOM	985	N	TYR A	71157.724	7.366	3.883	1.00	0.00	N
ATOM	986	CA	TYR A	71156.516	8.124	4.185	1.00	0.00	C
ATOM	987	C	TYR A	71156.011	7.805	5.588	1.00	0.00	C
ATOM	988	O	TYR A	71155.523	8.684	6.298	1.00	0.00	O
ATOM	989	CB	TYR A	71155.426	7.819	3.156	1.00	0.00	C
ATOM	990	CG	TYR A	71155.667	8.463	1.809	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.569	7.724	0.637	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.992	9.810	1.710	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.787	8.309	-0.596	1.00	0.00	C
ATOM	994	CE2	TYR A	71156.212	10.402	0.481	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.109	9.648	-0.669	1.00	0.00	C
ATOM	996	OH	TYR A	71156.328	10.234	-1.894	1.00	0.00	O
ATOM	997	H	TYR A	71157.668	6.390	3.801	1.00	0.00	H
ATOM	998	HA	TYR A	71156.762	9.174	4.134	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.371	6.751	3.007	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.479	8.174	3.530	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.318	6.675	0.696	1.00	0.00	H
ATOM	1002	HD2	TYR A	71156.073	10.399	2.612	1.00	0.00	H

ATOM	1003	HE1 TYR A	71155.707	7.718	-1.496	1.00	0.00	H
ATOM	1004	HE2 TYR A	71156.464	11.451	0.424	1.00	0.00	H
ATOM	1005	HH TYR A	71155.544	10.138	-2.440	1.00	0.00	H
ATOM	1006	N PHE A	72156.134	6.541	5.981	1.00	0.00	N
ATOM	1007	CA PHE A	72155.691	6.104	7.299	1.00	0.00	C
ATOM	1008	C PHE A	72156.581	4.984	7.826	1.00	0.00	C
ATOM	1009	O PHE A	72157.396	4.427	7.090	1.00	0.00	O
ATOM	1010	CB PHE A	72154.237	5.631	7.242	1.00	0.00	C
ATOM	1011	CG PHE A	72153.990	4.570	6.207	1.00	0.00	C
ATOM	1012	CD1 PHE A	72154.023	3.228	6.551	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.726	4.916	4.891	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.796	2.250	5.600	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.499	3.942	3.937	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.533	2.608	4.292	1.00	0.00	C
ATOM	1017	H PHE A	72156.532	5.887	5.369	1.00	0.00	H
ATOM	1018	HA PHE A	72155.759	6.948	7.969	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.959	5.226	8.204	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.600	6.474	7.014	1.00	0.00	H
ATOM	1021	HD1 PHE A	72154.227	2.947	7.573	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.698	5.959	4.613	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.824	1.207	5.880	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.294	4.225	2.915	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.355	1.846	3.548	1.00	0.00	H
ATOM	1026	N THR A	73156.421	4.658	9.104	1.00	0.00	N
ATOM	1027	CA THR A	73157.213	3.604	9.729	1.00	0.00	C
ATOM	1028	C THR A	73156.352	2.379	10.019	1.00	0.00	C
ATOM	1029	O THR A	73155.488	2.407	10.896	1.00	0.00	O

ATOM	1030	CB	THR A	73157.849	4.113	11.023	1.00	0.00	C
ATOM	1031	OG1	THR A	73158.357	5.424	10.851	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.984	3.242	11.515	1.00	0.00	C
ATOM	1033	H	THR A	73155.757	5.138	9.641	1.00	0.00	H
ATOM	1034	HA	THR A	73157.995	3.324	9.040	1.00	0.00	H
ATOM	1035	HB	THR A	73157.094	4.141	11.797	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.929	5.447	10.079	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.652	3.023	10.695	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.584	2.319	11.909	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.526	3.760	12.292	1.00	0.00	H
ATOM	1040	N	CYS A	74156.595	1.303	9.277	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.842	0.066	9.456	1.00	0.00	C
ATOM	1042	C	CYS A	74156.782	-1.131	9.560	1.00	0.00	C
ATOM	1043	O	CYS A	74158.003	-0.976	9.551	1.00	0.00	O
ATOM	1044	CB	CYS A	74154.870	-0.135	8.292	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.244	0.612	8.553	1.00	0.00	S
ATOM	1046	H	CYS A	74157.296	1.341	8.594	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.281	0.149	10.373	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.292	0.302	7.400	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.725	-1.194	8.134	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.305	1.198	9.311	1.00	0.00	H
ATOM	1051	N	ALA A	75156.205	-2.324	9.660	1.00	0.00	N
ATOM	1052	CA	ALA A	75156.991	-3.546	9.768	1.00	0.00	C
ATOM	1053	C	ALA A	75157.870	-3.743	8.538	1.00	0.00	C
ATOM	1054	O	ALA A	75157.664	-3.105	7.506	1.00	0.00	O
ATOM	1055	CB	ALA A	75156.076	-4.746	9.962	1.00	0.00	C
ATOM	1056	H	ALA A	75155.227	-2.382	9.663	1.00	0.00	H

ATOM	1057	HA	ALA A	75157.623	-3.461	10.641	1.00	0.00	H
ATOM	1058	1HB	ALA A	75156.517	-5.615	9.495	1.00	0.00	H
ATOM	1059	2HB	ALA A	75155.116	-4.544	9.511	1.00	0.00	H
ATOM	1060	3HB	ALA A	75155.945	-4.933	11.018	1.00	0.00	H
ATOM	1061	N	LEU A	76158.852	-4.630	8.655	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.764	-4.911	7.552	1.00	0.00	C
ATOM	1063	C	LEU A	76159.147	-5.906	6.577	1.00	0.00	C
ATOM	1064	O	LEU A	76158.533	-6.893	6.985	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.090	-5.456	8.085	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.125	-4.392	8.458	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.974	-4.861	9.630	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.002	-4.060	7.261	1.00	0.00	C
ATOM	1069	H	LEU A	76158.967	-5.108	9.503	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.950	-3.983	7.031	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.884	-6.052	8.962	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.523	-6.096	7.330	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.611	-3.490	8.758	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.628	-5.656	9.304	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.331	-5.223	10.418	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.566	-4.036	9.997	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.237	-3.007	7.267	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.476	-4.307	6.350	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.916	-4.633	7.314	1.00	0.00	H
ATOM	1080	N	LYS A	77159.313	-5.643	5.285	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.772	-6.517	4.250	1.00	0.00	C
ATOM	1082	C	LYS A	77157.252	-6.603	4.351	1.00	0.00	C
ATOM	1083	O	LYS A	77156.665	-7.666	4.149	1.00	0.00	O

ATOM	1084	CB	LYS A	77159.383	-7.915	4.364	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.885	-7.943	4.138	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.226	-7.877	2.657	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.671	-7.456	2.437	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.874	-6.860	1.088	1.00	0.00	N
ATOM	1089	H	LYS A	77159.811	-4.842	5.021	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.034	-6.097	3.291	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.182	-8.303	5.352	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.918	-8.559	3.632	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.331	-7.096	4.637	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.285	-8.858	4.550	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.075	-8.852	2.220	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.574	-7.160	2.180	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.937	-6.726	3.187	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.304	-8.324	2.538	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.161	-7.597	0.412	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.618	-6.134	1.127	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77161.993	-6.420	0.753	1.00	0.00	H
ATOM	1102	N	LYS A	78156.621	-5.477	4.666	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.169	-5.426	4.795	1.00	0.00	C
ATOM	1104	C	LYS A	78154.633	-4.057	4.383	1.00	0.00	C
ATOM	1105	O	LYS A	78153.726	-3.518	5.017	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.754	-5.738	6.234	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.238	-7.092	6.726	1.00	0.00	C
ATOM	1108	CD	LYS A	78154.904	-7.305	8.194	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.702	-8.221	8.365	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.966	-7.941	9.629	1.00	0.00	N

ATOM	1111	H	LYS A	78157.143	-4.661	4.816	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.751	-6.174	4.138	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.155	-4.977	6.886	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.675	-5.722	6.296	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.764	-7.868	6.143	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.309	-7.148	6.598	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.755	-7.749	8.687	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.683	-6.349	8.645	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.033	-8.077	7.530	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.047	-9.245	8.378	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78151.944	-8.061	9.480	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.148	-6.966	9.941	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.277	-8.595	10.376	1.00	0.00	H
ATOM	1124	N	ALA A	79155.201	-3.502	3.317	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.780	-2.198	2.821	1.00	0.00	C
ATOM	1126	C	ALA A	79154.611	-2.214	1.306	1.00	0.00	C
ATOM	1127	O	ALA A	79155.588	-2.325	0.564	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.783	-1.130	3.231	1.00	0.00	C
ATOM	1129	H	ALA A	79155.919	-3.981	2.854	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.829	-1.959	3.277	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.800	-1.045	4.308	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.496	-0.181	2.800	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.766	-1.404	2.877	1.00	0.00	H
ATOM	1134	N	LEU A	80153.367	-2.104	0.853	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.069	-2.107	-0.575	1.00	0.00	C
ATOM	1136	C	LEU A	80152.263	-0.873	-0.964	1.00	0.00	C
ATOM	1137	O	LEU A	80151.180	-0.634	-0.430	1.00	0.00	O

ATOM	1138	CB	LEU A	80152.301	-3.375	-0.954	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.870	-3.458	-2.419	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.080	-3.657	-3.320	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.867	-4.584	-2.615	1.00	0.00	C
ATOM	1142	H	LEU A	80152.631	-2.020	1.493	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.008	-2.092	-1.110	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.927	-4.228	-0.734	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.416	-3.432	-0.339	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.393	-2.531	-2.701	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.819	-4.251	-2.805	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.502	-2.695	-3.573	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80152.775	-4.164	-4.224	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.987	-5.007	-3.602	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80149.865	-4.195	-2.510	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.036	-5.351	-1.873	1.00	0.00	H
ATOM	1153	N	PHE A	81152.797	-0.093	-1.898	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.126	1.117	-2.359	1.00	0.00	C
ATOM	1155	C	PHE A	81151.269	0.830	-3.589	1.00	0.00	C
ATOM	1156	O	PHE A	81151.629	0.006	-4.429	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.153	2.204	-2.682	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.880	2.720	-1.472	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.473	3.888	-0.849	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.971	2.035	-0.960	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.140	4.365	0.264	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.642	2.508	0.152	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.226	3.673	0.764	1.00	0.00	C
ATOM	1164	H	PHE A	81153.662	-0.337	-2.287	1.00	0.00	H

ATOM	1165	HA	PHE A	81151.485	1.465	-1.562	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.887	1.805	-3.365	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.649	3.038	-3.148	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.624	4.429	-1.239	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.296	1.124	-1.438	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.814	5.277	0.740	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.491	1.965	0.542	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.749	4.044	1.634	1.00	0.00	H
ATOM	1173	N	VAL A	82150.136	1.517	-3.687	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.229	1.335	-4.815	1.00	0.00	C
ATOM	1175	C	VAL A	82148.350	2.565	-5.016	1.00	0.00	C
ATOM	1176	O	VAL A	82148.273	3.435	-4.148	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.328	0.102	-4.618	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.141	-1.178	-4.733	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.615	0.170	-3.276	1.00	0.00	C
ATOM	1180	H	VAL A	82149.904	2.160	-2.986	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.826	1.182	-5.701	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.581	0.099	-5.398	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.833	-1.241	-3.907	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.689	-1.174	-5.664	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82148.477	-2.029	-4.712	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.228	1.168	-3.124	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82148.311	-0.070	-2.486	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82146.800	-0.537	-3.265	1.00	0.00	H
ATOM	1189	N	LYS A	83147.689	2.631	-6.167	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.816	3.755	-6.484	1.00	0.00	C
ATOM	1191	C	LYS A	83145.586	3.760	-5.582	1.00	0.00	C

ATOM	1192	O	LYS A	83144.833	2.788	-5.534	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.387	3.697	-7.951	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.548	3.777	-8.928	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.109	3.447	-10.345	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.812	4.326	-11.366	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.149	3.576	-12.607	1.00	0.00	N
ATOM	1198	H	LYS A	83147.792	1.907	-6.819	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.371	4.665	-6.316	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.862	2.768	-8.125	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.717	4.521	-8.152	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.951	4.779	-8.912	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.311	3.076	-8.624	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.343	2.414	-10.553	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.042	3.600	-10.425	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.164	5.151	-11.620	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.723	4.708	-10.927	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.769	4.150	-13.214	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.281	3.349	-13.134	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.638	2.690	-12.368	1.00	0.00	H
ATOM	1211	N	LEU A	84145.391	4.864	-4.868	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.255	5.003	-3.966	1.00	0.00	C
ATOM	1213	C	LEU A	84142.937	4.838	-4.717	1.00	0.00	C
ATOM	1214	O	LEU A	84141.972	4.290	-4.184	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.298	6.366	-3.273	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.095	6.680	-2.379	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.181	5.900	-1.078	1.00	0.00	C
ATOM	1218	CD2	LEU A	84143.014	8.174	-2.104	1.00	0.00	C

ATOM	1219	H	LEU A	84146.029	5.603	-4.951	1.00	0.00 H
ATOM	1220	HA	LEU A	84144.328	4.227	-3.218	1.00	0.00 H
ATOM	1221	1HB	LEU A	84145.191	6.411	-2.668	1.00	0.00 H
ATOM	1222	2HB	LEU A	84144.361	7.129	-4.034	1.00	0.00 H
ATOM	1223	HG	LEU A	84142.190	6.382	-2.888	1.00	0.00 H
ATOM	1224	1HD1	LEU A	84142.206	5.865	-0.613	1.00	0.00 H
ATOM	1225	2HD1	LEU A	84143.879	6.386	-0.412	1.00	0.00 H
ATOM	1226	3HD1	LEU A	84143.518	4.894	-1.282	1.00	0.00 H
ATOM	1227	1HD2	LEU A	84142.869	8.704	-3.034	1.00	0.00 H
ATOM	1228	2HD2	LEU A	84143.931	8.505	-1.639	1.00	0.00 H
ATOM	1229	3HD2	LEU A	84142.183	8.373	-1.443	1.00	0.00 H
ATOM	1230	N	LYS A	85142.905	5.316	-5.956	1.00	0.00 N
ATOM	1231	CA	LYS A	85141.705	5.221	-6.780	1.00	0.00 C
ATOM	1232	C	LYS A	85141.354	3.764	-7.067	1.00	0.00 C
ATOM	1233	O	LYS A	85140.195	3.432	-7.310	1.00	0.00 O
ATOM	1234	CB	LYS A	85141.902	5.980	-8.094	1.00	0.00 C
ATOM	1235	CG	LYS A	85143.103	5.507	-8.896	1.00	0.00 C
ATOM	1236	CD	LYS A	85143.831	6.670	-9.549	1.00	0.00 C
ATOM	1237	CE	LYS A	85144.950	6.188	-10.458	1.00	0.00 C
ATOM	1238	NZ	LYS A	85145.785	7.315	-10.956	1.00	0.00 N
ATOM	1239	H	LYS A	85143.706	5.743	-6.326	1.00	0.00 H
ATOM	1240	HA	LYS A	85140.892	5.673	-6.232	1.00	0.00 H
ATOM	1241	1HB	LYS A	85141.017	5.856	-8.702	1.00	0.00 H
ATOM	1242	2HB	LYS A	85142.032	7.029	-7.874	1.00	0.00 H
ATOM	1243	1HG	LYS A	85143.785	4.993	-8.236	1.00	0.00 H
ATOM	1244	2HG	LYS A	85142.764	4.828	-9.666	1.00	0.00 H
ATOM	1245	1HD	LYS A	85143.127	7.241	-10.135	1.00	0.00 H

ATOM	1246	2HD	LYS A	85144.251	7.298	-8.777	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.576	5.504	-9.904	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.514	5.674	-11.301	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.781	7.021	-11.021	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.717	8.125	-10.308	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85145.460	7.611	-11.898	1.00	0.00	H
ATOM	1252	N	SER A	86142.364	2.898	-7.038	1.00	0.00	N
ATOM	1253	CA	SER A	86142.159	1.478	-7.294	1.00	0.00	C
ATOM	1254	C	SER A	86142.129	0.688	-5.991	1.00	0.00	C
ATOM	1255	O	SER A	86142.573	-0.459	-5.938	1.00	0.00	O
ATOM	1256	CB	SER A	86143.263	0.939	-8.207	1.00	0.00	C
ATOM	1257	OG	SER A	86143.111	1.420	-9.531	1.00	0.00	O
ATOM	1258	H	SER A	86143.268	3.222	-6.838	1.00	0.00	H
ATOM	1259	HA	SER A	86141.206	1.365	-7.791	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.224	1.255	-7.830	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.218	-0.140	-8.222	1.00	0.00	H
ATOM	1262	HG	SER A	86142.913	2.359	-9.509	1.00	0.00	H
ATOM	1263	N	CYS A	87141.602	1.309	-4.940	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.513	0.663	-3.636	1.00	0.00	C
ATOM	1265	C	CYS A	87140.058	0.429	-3.243	1.00	0.00	C
ATOM	1266	O	CYS A	87139.167	1.173	-3.652	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.209	1.517	-2.573	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.014	1.478	-2.662	1.00	0.00	S
ATOM	1269	H	CYS A	87141.265	2.222	-5.046	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.014	-0.290	-3.702	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.897	2.545	-2.687	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.920	1.165	-1.594	1.00	0.00	H

ATOM	1273	HG	CYS A	87144.348	2.278	-2.249	1.00	0.00	H
ATOM	1274	N	ARG A	88139.824	-0.611	-2.450	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.477	-0.944	-2.004	1.00	0.00	C
ATOM	1276	C	ARG A	88138.411	-1.018	-0.478	1.00	0.00	C
ATOM	1277	O	ARG A	88139.235	-1.682	0.152	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.032	-2.277	-2.610	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.252	-2.125	-3.905	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.768	-1.931	-3.642	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.945	-2.463	-4.726	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.850	-1.900	-5.928	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.523	-0.790	-6.205	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.079	-2.449	-6.857	1.00	0.00	N
ATOM	1285	H	ARG A	88140.576	-1.169	-2.158	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.814	-0.165	-2.346	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.907	-2.877	-2.809	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.407	-2.794	-1.896	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.628	-1.268	-4.442	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.390	-3.015	-4.503	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.508	-2.439	-2.724	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.570	-0.875	-3.536	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.438	-3.282	-4.549	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.106	-0.371	-5.509	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.447	-0.372	-7.110	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.570	-3.286	-6.655	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.007	-2.026	-7.761	1.00	0.00	H
ATOM	1298	N	PRO A	89137.428	-0.338	0.142	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.268	-0.339	1.600	1.00	0.00	C

ATOM	1300	C	PRO A	89137.186	-1.750	2.172	1.00	0.00 C
ATOM	1301	O	PRO A	89136.385	-2.567	1.720	1.00	0.00 O
ATOM	1302	CB	PRO A	89135.947	0.404	1.818	1.00	0.00 C
ATOM	1303	CG	PRO A	89135.784	1.254	0.607	1.00	0.00 C
ATOM	1304	CD	PRO A	89136.397	0.481	-0.526	1.00	0.00 C
ATOM	1305	HA	PRO A	89138.071	0.198	2.085	1.00	0.00 H
ATOM	1306	1HB	PRO A	89135.142	-0.311	1.912	1.00	0.00 H
ATOM	1307	2HB	PRO A	89136.011	1.003	2.714	1.00	0.00 H
ATOM	1308	1HG	PRO A	89134.733	1.426	0.418	1.00	0.00 H
ATOM	1309	2HG	PRO A	89136.300	2.192	0.744	1.00	0.00 H
ATOM	1310	1HD	PRO A	89135.657	-0.144	-1.003	1.00	0.00 H
ATOM	1311	2HD	PRO A	89136.845	1.153	-1.242	1.00	0.00 H
ATOM	1312	N	ASPA	90138.017	-2.028	3.171	1.00	0.00 N
ATOM	1313	CA	ASPA	90138.036	-3.340	3.807	1.00	0.00 C
ATOM	1314	C	ASPA	90137.323	-3.300	5.154	1.00	0.00 C
ATOM	1315	O	ASPA	90137.873	-2.820	6.145	1.00	0.00 O
ATOM	1316	CB	ASPA	90139.477	-3.819	3.993	1.00	0.00 C
ATOM	1317	CG	ASPA	90139.595	-5.329	3.941	1.00	0.00 C
ATOM	1318	OD1	ASPA	90138.798	-5.963	3.219	1.00	0.00 O
ATOM	1319	OD2	ASPA	90140.484	-5.879	4.626	1.00	0.00 O
ATOM	1320	H	ASPA	90138.632	-1.333	3.488	1.00	0.00 H
ATOM	1321	HA	ASPA	90137.517	-4.029	3.158	1.00	0.00 H
ATOM	1322	1HB	ASPA	90140.092	-3.402	3.209	1.00	0.00 H
ATOM	1323	2HB	ASPA	90139.842	-3.479	4.951	1.00	0.00 H
ATOM	1324	N	SER A	91136.093	-3.806	5.183	1.00	0.00 N
ATOM	1325	CA	SER A	91135.304	-3.827	6.409	1.00	0.00 C
ATOM	1326	C	SER A	91135.387	-5.191	7.088	1.00	0.00 C

ATOM	1327	O	SER A	91134.473	-5.595	7.806	1.00	0.00	O
ATOM	1328	CB	SER A	91133.844	-3.489	6.104	1.00	0.00	C
ATOM	1329	OG	SER A	91133.229	-2.842	7.204	1.00	0.00	O
ATOM	1330	H	SER A	91135.708	-4.173	4.359	1.00	0.00	H
ATOM	1331	HA	SER A	91135.706	-3.080	7.076	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.799	-2.835	5.247	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.305	-4.400	5.891	1.00	0.00	H
ATOM	1334	HG	SER A	91132.507	-3.385	7.531	1.00	0.00	H
ATOM	1335	N	ARG A	92136.490	-5.898	6.857	1.00	0.00	N
ATOM	1336	CA	ARG A	92136.689	-7.217	7.447	1.00	0.00	C
ATOM	1337	C	ARG A	92136.792	-7.125	8.966	1.00	0.00	C
ATOM	1338	O	ARG A	92136.442	-8.066	9.679	1.00	0.00	O
ATOM	1339	CB	ARG A	92137.950	-7.867	6.877	1.00	0.00	C
ATOM	1340	CG	ARG A	92137.698	-8.693	5.627	1.00	0.00	C
ATOM	1341	CD	ARG A	92138.690	-9.839	5.507	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.461	-10.869	6.518	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.262	-11.916	6.704	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.342	-12.076	5.949	1.00	0.00	N
ATOM	1345	NH2	ARG A	92138.981	-12.806	7.646	1.00	0.00	N
ATOM	1346	H	ARG A	92137.184	-5.525	6.276	1.00	0.00	H
ATOM	1347	HA	ARG A	92135.835	-7.826	7.192	1.00	0.00	H
ATOM	1348	1HB	ARG A	92138.663	-7.092	6.633	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.380	-8.514	7.629	1.00	0.00	H
ATOM	1350	1HG	ARG A	92136.699	-9.099	5.671	1.00	0.00	H
ATOM	1351	2HG	ARG A	92137.792	-8.055	4.760	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.591	-10.282	4.527	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.690	-9.447	5.625	1.00	0.00	H

ATOM	1354	HE	ARG A	92137.670	-10.775	7.088	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92140.560	-11.409	5.237	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.940	-12.865	6.094	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92138.168	-12.689	8.216	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92139.582	-13.593	7.785	1.00	0.00	H
ATOM	1359	N	PHE A	93137.276	-5.988	9.456	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.426	-5.779	10.891	1.00	0.00	C
ATOM	1361	C	PHE A	93136.416	-4.758	11.407	1.00	0.00	C
ATOM	1362	O	PHE A	93136.659	-4.082	12.407	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.848	-5.313	11.213	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.903	-6.319	10.855	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.687	-6.900	11.839	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.111	-6.686	9.535	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.659	-7.827	11.512	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.081	-7.612	9.203	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.857	-8.183	10.192	1.00	0.00	C
ATOM	1370	H	PHE A	93137.539	-5.275	8.839	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.248	-6.723	11.384	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.054	-4.406	10.665	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.922	-5.113	12.271	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.533	-6.623	12.871	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.506	-6.239	8.760	1.00	0.00	H
ATOM	1376	HE1	PHE A	93142.264	-8.272	12.289	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.234	-7.888	8.170	1.00	0.00	H
ATOM	1378	HZ	PHE A	93142.615	-8.907	9.935	1.00	0.00	H
ATOM	1379	N	ALAA	94135.281	-4.649	10.721	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.240	-3.710	11.117	1.00	0.00	C

ATOM	1381	C	ALAA	94133.215	-4.378	12.028	1.00	0.00	C
ATOM	1382	O	ALAA	94132.649	-5.416	11.684	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.557	-3.130	9.890	1.00	0.00	C
ATOM	1384	H	ALAA	94135.142	-5.214	9.932	1.00	0.00	H
ATOM	1385	HA	ALAA	94134.709	-2.900	11.656	1.00	0.00	H
ATOM	1386	1HB	ALAA	94132.958	-2.278	10.178	1.00	0.00	H
ATOM	1387	2HB	ALAA	94132.922	-3.880	9.442	1.00	0.00	H
ATOM	1388	3HB	ALAA	94134.305	-2.818	9.175	1.00	0.00	H
ATOM	1389	N	SER A	95132.983	-3.778	13.190	1.00	0.00	N
ATOM	1390	CA	SER A	95132.026	-4.315	14.151	1.00	0.00	C
ATOM	1391	C	SER A	95130.594	-4.075	13.684	1.00	0.00	C
ATOM	1392	O	SER A	95130.199	-2.939	13.422	1.00	0.00	O
ATOM	1393	CB	SER A	95132.240	-3.679	15.525	1.00	0.00	C
ATOM	1394	OG	SER A	95132.391	-2.274	15.421	1.00	0.00	O
ATOM	1395	H	SER A	95133.467	-2.953	13.408	1.00	0.00	H
ATOM	1396	HA	SER A	95132.194	-5.379	14.226	1.00	0.00	H
ATOM	1397	1HB	SER A	95131.389	-3.892	16.154	1.00	0.00	H
ATOM	1398	2HB	SER A	95133.132	-4.092	15.976	1.00	0.00	H
ATOM	1399	HG	SER A	95133.214	-2.008	15.838	1.00	0.00	H
ATOM	1400	N	LEU A	96129.822	-5.152	13.584	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.433	-5.058	13.149	1.00	0.00	C
ATOM	1402	C	LEU A	96127.642	-6.286	13.591	1.00	0.00	C
ATOM	1403	O	LEU A	96127.548	-7.272	12.860	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.364	-4.909	11.627	1.00	0.00	C
ATOM	1405	CG	LEU A	96128.144	-3.480	11.127	1.00	0.00	C
ATOM	1406	CD1	LEU A	96128.600	-3.344	9.683	1.00	0.00	C
ATOM	1407	CD2	LEU A	96126.680	-3.088	11.266	1.00	0.00	C

ATOM	1408	H	LEU A	96130.195	-6.030	13.808	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.000	-4.182	13.608	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.290	-5.276	11.208	1.00	0.00	H
ATOM	1411	2HB	LEU A	96127.554	-5.522	11.261	1.00	0.00	H
ATOM	1412	HG	LEU A	96128.732	-2.801	11.728	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96127.967	-2.634	9.171	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96128.535	-4.304	9.193	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96129.623	-2.997	9.659	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.133	-3.428	10.398	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.601	-2.014	11.342	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.268	-3.543	12.153	1.00	0.00	H
ATOM	1419	N	GLN A	97127.077	-6.219	14.792	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.295	-7.326	15.332	1.00	0.00	C
ATOM	1421	C	GLN A	97127.147	-8.589	15.445	1.00	0.00	C
ATOM	1422	O	GLN A	97127.340	-9.305	14.462	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.079	-7.596	14.446	1.00	0.00	C
ATOM	1424	CG	GLN A	97123.875	-6.732	14.784	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.033	-7.317	15.901	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.773	-8.519	15.934	1.00	0.00	O
ATOM	1427	NE2	GLN A	97122.601	-6.466	16.825	1.00	0.00	N
ATOM	1428	H	GLN A	97127.189	-5.406	15.328	1.00	0.00	H
ATOM	1429	HA	GLN A	97125.956	-7.041	16.316	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.349	-7.413	13.417	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.793	-8.632	14.556	1.00	0.00	H
ATOM	1432	1HG	GLN A	97124.222	-5.756	15.090	1.00	0.00	H
ATOM	1433	2HG	GLN A	97123.259	-6.634	13.902	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97122.847	-5.522	16.736	1.00	0.00	H

ATOM	1435	2HE2	GLN A	97122.055	-6.817	17.559	1.00	0.00	H
ATOM	1436	N	PRO A	98127.670	-8.881	16.649	1.00	0.00	N
ATOM	1437	CA	PRO A	98128.502	-10.065	16.879	1.00	0.00	C
ATOM	1438	C	PRO A	98127.689	-11.355	16.877	1.00	0.00	C
ATOM	1439	O	PRO A	98126.521	-11.363	16.487	1.00	0.00	O
ATOM	1440	CB	PRO A	98129.100	-9.812	18.264	1.00	0.00	C
ATOM	1441	CG	PRO A	98128.106	-8.940	18.950	1.00	0.00	C
ATOM	1442	CD	PRO A	98127.492	-8.082	17.877	1.00	0.00	C
ATOM	1443	HA	PRO A	98129.295	-10.139	16.150	1.00	0.00	H
ATOM	1444	1HB	PRO A	98129.226	-10.752	18.782	1.00	0.00	H
ATOM	1445	2HB	PRO A	98130.054	-9.317	18.163	1.00	0.00	H
ATOM	1446	1HG	PRO A	98127.348	-9.550	19.422	1.00	0.00	H
ATOM	1447	2HG	PRO A	98128.602	-8.324	19.684	1.00	0.00	H
ATOM	1448	1HD	PRO A	98126.444	-7.917	18.080	1.00	0.00	H
ATOM	1449	2HD	PRO A	98128.015	-7.141	17.802	1.00	0.00	H
ATOM	1450	N	SER A	99128.314	-12.443	17.314	1.00	0.00	N
ATOM	1451	CA	SER A	99127.648	-13.740	17.362	1.00	0.00	C
ATOM	1452	C	SER A	99127.209	-14.177	15.967	1.00	0.00	C
ATOM	1453	O	SER A	99127.178	-13.374	15.036	1.00	0.00	O
ATOM	1454	CB	SER A	99126.436	-13.680	18.295	1.00	0.00	C
ATOM	1455	OG	SER A	99126.578	-12.641	19.248	1.00	0.00	O
ATOM	1456	H	SER A	99129.245	-12.373	17.611	1.00	0.00	H
ATOM	1457	HA	SER A	99128.353	-14.460	17.748	1.00	0.00	H
ATOM	1458	1HB	SER A	99125.545	-13.498	17.713	1.00	0.00	H
ATOM	1459	2HB	SER A	99126.340	-14.621	18.816	1.00	0.00	H
ATOM	1460	HG	SER A	99125.842	-12.669	19.864	1.00	0.00	H
ATOM	1461	N	GLY A	100126.873	-15.456	15.833	1.00	0.00	N

ATOM	1462	CA	GLY A 100126.441 -15.979	14.550	1.00	0.00	C
ATOM	1463	C	GLY A 100124.977 -16.377	14.548	1.00	0.00	C
ATOM	1464	O	GLY A 100124.227 -15.995	15.447	1.00	0.00	O
ATOM	1465	H	GLY A 100126.918 -16.050	16.612	1.00	0.00	H
ATOM	1466	1HA	GLY A 100126.599 -15.224	13.794	1.00	0.00	H
ATOM	1467	2HA	GLY A 100127.038 -16.845	14.308	1.00	0.00	H
ATOM	1468	N	PRO A 101124.535 -17.151	13.541	1.00	0.00	N
ATOM	1469	CA	PRO A 101123.141 -17.595	13.438	1.00	0.00	C
ATOM	1470	C	PRO A 101122.650 -18.261	14.719	1.00	0.00	C
ATOM	1471	O	PRO A 101123.355 -19.073	15.319	1.00	0.00	O
ATOM	1472	CB	PRO A 101123.172 -18.604	12.290	1.00	0.00	C
ATOM	1473	CG	PRO A 101124.345 -18.203	11.464	1.00	0.00	C
ATOM	1474	CD	PRO A 101125.360 -17.653	12.427	1.00	0.00	C
ATOM	1475	HA	PRO A 101122.483 -16.776	13.186	1.00	0.00	H
ATOM	1476	1HB	PRO A 101123.289 -19.602	12.686	1.00	0.00	H
ATOM	1477	2HB	PRO A 101122.253 -18.540	11.726	1.00	0.00	H
ATOM	1478	1HG	PRO A 101124.744 -19.065	10.950	1.00	0.00	H
ATOM	1479	2HG	PRO A 101124.053 -17.444	10.753	1.00	0.00	H
ATOM	1480	1HD	PRO A 101126.026 -18.434	12.760	1.00	0.00	H
ATOM	1481	2HD	PRO A 101125.917 -16.849	11.968	1.00	0.00	H
ATOM	1482	N	SER A 102121.436 -17.912	15.135	1.00	0.00	N
ATOM	1483	CA	SER A 102120.850 -18.477	16.345	1.00	0.00	C
ATOM	1484	C	SER A 102119.355 -18.713	16.166	1.00	0.00	C
ATOM	1485	O	SER A 102118.583 -18.618	17.120	1.00	0.00	O
ATOM	1486	CB	SER A 102121.094 -17.548	17.536	1.00	0.00	C
ATOM	1487	OG	SER A 102122.478 -17.319	17.730	1.00	0.00	O
ATOM	1488	H	SER A 102120.923 -17.260	14.615	1.00	0.00	H

ATOM	1489	HA	SER A 102121.332 -19.424	16.534	1.00	0.00	H
ATOM	1490	1HB	SER A 102120.607 -16.602	17.356	1.00	0.00	H
ATOM	1491	2HB	SER A 102120.687 -17.999	18.429	1.00	0.00	H
ATOM	1492	HG	SER A 102122.819 -16.784	17.010	1.00	0.00	H
ATOM	1493	N	SER A 103118.952 -19.020	14.937	1.00	0.00	N
ATOM	1494	CA	SER A 103117.547 -19.269	14.633	1.00	0.00	C
ATOM	1495	C	SER A 103117.370 -19.680	13.175	1.00	0.00	C
ATOM	1496	O	SER A 103117.412 -18.842	12.274	1.00	0.00	O
ATOM	1497	CB	SER A 103116.711 -18.024	14.929	1.00	0.00	C
ATOM	1498	OG	SER A 103116.240 -18.031	16.266	1.00	0.00	O
ATOM	1499	H	SER A 103119.615 -19.081	14.218	1.00	0.00	H
ATOM	1500	HA	SER A 103117.210 -20.077	15.265	1.00	0.00	H
ATOM	1501	1HB	SER A 103117.315 -17.142	14.780	1.00	0.00	H
ATOM	1502	2HB	SER A 103115.862 -17.995	14.261	1.00	0.00	H
ATOM	1503	HG	SER A 103116.540 -17.238	16.715	1.00	0.00	H
ATOM	1504	N	GLY A 104117.174 -20.975	12.949	1.00	0.00	N
ATOM	1505	CA	GLY A 104116.995 -21.474	11.599	1.00	0.00	C
ATOM	1506	C	GLY A 104116.072 -22.675	11.542	1.00	0.00	C
ATOM	1507	O	GLY A 104116.483 -23.712	10.980	1.00	0.00	O
ATOM	1508	OXT	GLY A 104114.940 -22.579	12.059	1.00	0.00	O
ATOM	1509	H	GLY A 104117.151 -21.597	13.706	1.00	0.00	H
ATOM	1510	1HA	GLY A 104116.579 -20.685	10.988	1.00	0.00	H
ATOM	1511	2HA	GLY A 104117.957 -21.753	11.198	1.00	0.00	H
TER	1512	GLY A 104					
ENDMDL							

ATOM 1	N	GLY A	1126.529	-1.144	18.709	1.00	0.00	N
ATOM 2	CA	GLY A	1126.599	-1.450	20.165	1.00	0.00	C
ATOM 3	C	GLY A	1125.953	-0.373	21.015	1.00	0.00	C
ATOM 4	O	GLY A	1126.369	-0.136	22.148	1.00	0.00	O
ATOM 5 1H		GLY A	1125.581	-1.364	18.343	1.00	0.00	H
ATOM 6 2H		GLY A	1127.228	-1.712	18.191	1.00	0.00	H
ATOM 7 3H		GLY A	1126.727	-0.136	18.545	1.00	0.00	H
ATOM 8 1HA		GLY A	1126.097	-2.388	20.349	1.00	0.00	H
ATOM 9 2HA		GLY A	1127.635	-1.546	20.452	1.00	0.00	H
ATOM10	N	SER A	2124.932	0.278	20.466	1.00	0.00	N
ATOM11	CA	SER A	2124.226	1.335	21.181	1.00	0.00	C
ATOM12	C	SER A	2125.161	2.498	21.496	1.00	0.00	C
ATOM13	O	SER A	2126.142	2.339	22.223	1.00	0.00	O
ATOM14	CB	SER A	2123.618	0.789	22.474	1.00	0.00	C
ATOM15	OG	SER A	2122.293	0.332	22.262	1.00	0.00	O
ATOM16	H	SER A	2124.647	0.042	19.559	1.00	0.00	H
ATOM17	HA	SER A	2123.431	1.692	20.542	1.00	0.00	H
ATOM18 1HB		SER A	2124.216	-0.036	22.830	1.00	0.00	H
ATOM19 2HB		SER A	2123.601	1.571	23.219	1.00	0.00	H
ATOM20	HG	SER A	2121.788	1.012	21.810	1.00	0.00	H
ATOM21	N	SER A	3124.851	3.667	20.945	1.00	0.00	N
ATOM22	CA	SER A	3125.664	4.858	21.168	1.00	0.00	C
ATOM23	C	SER A	3127.085	4.650	20.653	1.00	0.00	C
ATOM24	O	SER A	3127.935	4.096	21.352	1.00	0.00	O
ATOM25	CB	SER A	3125.695	5.208	22.657	1.00	0.00	C
ATOM26	OG	SER A	3125.726	6.612	22.849	1.00	0.00	O
ATOM27	H	SER A	3124.057	3.731	20.375	1.00	0.00	H

ATOM28	HA	SER A	3125.213	5.673	20.624	1.00	0.00	H
ATOM29	1HB	SER A	3124.812	4.812	23.136	1.00	0.00	H
ATOM30	2HB	SER A	3126.575	4.776	23.108	1.00	0.00	H
ATOM31	HG	SER A	3126.154	6.812	23.685	1.00	0.00	H
ATOM32	N	GLY A	4127.336	5.096	19.427	1.00	0.00	N
ATOM33	CA	GLY A	4128.655	4.950	18.841	1.00	0.00	C
ATOM34	C	GLY A	4128.942	6.004	17.790	1.00	0.00	C
ATOM35	O	GLY A	4128.099	6.854	17.506	1.00	0.00	O
ATOM36	H	GLY A	4126.620	5.528	18.917	1.00	0.00	H
ATOM37	1HA	GLY A	4129.396	5.026	19.622	1.00	0.00	H
ATOM38	2HA	GLY A	4128.728	3.974	18.384	1.00	0.00	H
ATOM39	N	SER A	5130.137	5.949	17.210	1.00	0.00	N
ATOM40	CA	SER A	5130.535	6.906	16.184	1.00	0.00	C
ATOM41	C	SER A	5129.867	6.585	14.851	1.00	0.00	C
ATOM42	O	SER A	5129.360	7.476	14.170	1.00	0.00	O
ATOM43	CB	SER A	5132.056	6.906	16.019	1.00	0.00	C
ATOM44	OG	SER A	5132.669	7.794	16.936	1.00	0.00	O
ATOM45	H	SER A	5130.767	5.247	17.479	1.00	0.00	H
ATOM46	HA	SER A	5130.217	7.887	16.506	1.00	0.00	H
ATOM47	1HB	SER A	5132.435	5.910	16.193	1.00	0.00	H
ATOM48	2HB	SER A	5132.305	7.216	15.015	1.00	0.00	H
ATOM49	HG	SER A	5133.495	8.116	16.568	1.00	0.00	H
ATOM50	N	SER A	6129.869	5.307	14.487	1.00	0.00	N
ATOM51	CA	SER A	6129.263	4.869	13.235	1.00	0.00	C
ATOM52	C	SER A	6129.935	5.539	12.041	1.00	0.00	C
ATOM53	O	SER A	6130.714	6.479	12.201	1.00	0.00	O
ATOM54	CB	SER A	6127.764	5.181	13.233	1.00	0.00	C

ATOM55	OG	SER A	6127.128	4.621	12.097	1.00	0.00	O
ATOM56	H	SER A	6130.288	4.644	15.073	1.00	0.00	H
ATOM57	HA	SER A	6129.399	3.801	13.157	1.00	0.00	H
ATOM58	1HB	SER A	6127.312	4.770	14.122	1.00	0.00	H
ATOM59	2HB	SER A	6127.622	6.252	13.219	1.00	0.00	H
ATOM60	HG	SER A	6127.148	3.663	12.158	1.00	0.00	H
ATOM61	N	GLY A	7129.628	5.049	10.844	1.00	0.00	N
ATOM62	CA	GLY A	7130.212	5.613	9.641	1.00	0.00	C
ATOM63	C	GLY A	7129.263	6.548	8.919	1.00	0.00	C
ATOM64	O	GLY A	7128.048	6.481	9.110	1.00	0.00	O
ATOM65	H	GLY A	7129.001	4.299	10.778	1.00	0.00	H
ATOM66	1HA	GLY A	7131.104	6.159	9.909	1.00	0.00	H
ATOM67	2HA	GLY A	7130.482	4.808	8.974	1.00	0.00	H
ATOM68	N	LEU A	8129.818	7.424	8.087	1.00	0.00	N
ATOM69	CA	LEU A	8129.013	8.378	7.333	1.00	0.00	C
ATOM70	C	LEU A	8128.849	7.929	5.885	1.00	0.00	C
ATOM71	O	LEU A	8127.830	8.202	5.252	1.00	0.00	O
ATOM72	CB	LEU A	8129.654	9.766	7.379	1.00	0.00	C
ATOM73	CG	LEU A	8129.368	10.571	8.648	1.00	0.00	C
ATOM74	CD1	LEU A	8130.443	11.625	8.866	1.00	0.00	C
ATOM75	CD2	LEU A	8127.993	11.217	8.568	1.00	0.00	C
ATOM76	H	LEU A	8130.792	7.429	7.977	1.00	0.00	H
ATOM77	HA	LEU A	8128.038	8.427	7.795	1.00	0.00	H
ATOM78	1HB	LEU A	8130.725	9.648	7.286	1.00	0.00	H
ATOM79	2HB	LEU A	8129.297	10.334	6.532	1.00	0.00	H
ATOM80	HG	LEU A	8129.376	9.904	9.498	1.00	0.00	H
ATOM81	1HD1	LEU A	8130.599	11.766	9.926	1.00	0.00	H

ATOM82	2HD1	LEU A	8130.128	12.558	8.422	1.00	0.00	H	
ATOM83	3HD1	LEU A	8131.363	11.300	8.406	1.00	0.00	H	
ATOM84	1HD2	LEU A	8127.246	10.518	8.916	1.00	0.00	H	
ATOM85	2HD2	LEU A	8127.782	11.489	7.545	1.00	0.00	H	
ATOM86	3HD2	LEU A	8127.974	12.102	-9.188	1.00	0.00	H	
ATOM87	N	ALA A	9129.860	7.236	5.368	1.00	0.00	N	
ATOM88	CA	ALA A	9129.829	6.747	3.994	1.00	0.00	C	
ATOM89	C	ALA A	9129.756	7.901	3.001	1.00	0.00	C	
ATOM90	O	ALA A	9128.813	8.693	3.021	1.00	0.00	O	
ATOM91	CB	ALA A	9128.652	5.803	3.796	1.00	0.00	C	
ATOM92	H	ALA A	9130.644	7.050	5.924	1.00	0.00	H	
ATOM93	HA	ALA A	9130.739	6.192	3.819	1.00	0.00	H	
ATOM94	1HB	ALA A	9128.337	5.416	4.753	1.00	0.00	H	
ATOM95	2HB	ALA A	9128.951	4.985	3.158	1.00	0.00	H	
ATOM96	3HB	ALA A	9127.834	6.339	3.337	1.00	0.00	H	
ATOM97	N	MET A	10130.756	7.990	2.131	1.00	0.00	N	
ATOM98	CA	MET A	10130.807	9.048	1.127	1.00	0.00	C	
ATOM99	C	MET A	10130.920	8.458	-0.277	1.00	0.00	C	
ATOM	100	O	MET A	10132.008	8.408	-0.852	1.00	0.00	O
ATOM	101	CB	MET A	10131.989	9.981	1.398	1.00	0.00	C
ATOM	102	CG	MET A	10132.125	10.382	2.858	1.00	0.00	C
ATOM	103	SD	MET A	10132.698	12.078	3.062	1.00	0.00	S
ATOM	104	CE	MET A	10132.906	12.155	4.839	1.00	0.00	C
ATOM	105	H	MET A	10131.479	7.328	2.163	1.00	0.00	H
ATOM	106	HA	MET A	10129.890	9.613	1.194	1.00	0.00	H
ATOM	107	1HB	MET A	10132.900	9.486	1.096	1.00	0.00	H
ATOM	108	2HB	MET A	10131.864	10.880	0.811	1.00	0.00	H

ATOM	109	1HG	MET A	10131.161	10.283	3.336	1.00	0.00	H
ATOM	110	2HG	MET A	10132.831	9.718	3.335	1.00	0.00	H
ATOM	111	1HE	MET A	10133.016	13.184	5.146	1.00	0.00	H
ATOM	112	2HE	MET A	10133.787	11.598	5.123	1.00	0.00	H
ATOM	113	3HE	MET A	10132.039	11.726	5.321	1.00	0.00	H
ATOM	114	N	PRO A	11129.792	8.005	-0.850	1.00	0.00	N
ATOM	115	CA	PRO A	11129.771	7.417	-2.193	1.00	0.00	C
ATOM	116	C	PRO A	11130.295	8.381	-3.257	1.00	0.00	C
ATOM	117	O	PRO A	11131.120	8.003	-4.089	1.00	0.00	O
ATOM	118	CB	PRO A	11128.292	7.101	-2.440	1.00	0.00	C
ATOM	119	CG	PRO A	11127.661	7.081	-1.088	1.00	0.00	C
ATOM	120	CD	PRO A	11128.455	8.028	-0.234	1.00	0.00	C
ATOM	121	HA	PRO A	11130.346	6.504	-2.230	1.00	0.00	H
ATOM	122	1HB	PRO A	11127.858	7.865	-3.068	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.207	6.140	-2.926	1.00	0.00	H
ATOM	124	1HG	PRO A	11126.639	7.416	-1.161	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.701	6.083	-0.680	1.00	0.00	H
ATOM	126	1HD	PRO A	11128.030	9.019	-0.272	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.495	7.671	0.785	1.00	0.00	H
ATOM	128	N	PRO A	12129.828	9.644	-3.248	1.00	0.00	N
ATOM	129	CA	PRO A	12130.269	10.649	-4.221	1.00	0.00	C
ATOM	130	C	PRO A	12131.785	10.805	-4.236	1.00	0.00	C
ATOM	131	O	PRO A	12132.363	11.262	-5.222	1.00	0.00	O
ATOM	132	CB	PRO A	12129.605	11.940	-3.737	1.00	0.00	C
ATOM	133	CG	PRO A	12128.436	11.491	-2.931	1.00	0.00	C
ATOM	134	CD	PRO A	12128.847	10.194	-2.294	1.00	0.00	C
ATOM	135	HA	PRO A	12129.923	10.413	-5.217	1.00	0.00	H

ATOM	136	1HB	PRO A	12130.305	12.505	-3.138	1.00	0.00	H
ATOM	137	2HB	PRO A	12129.294	12.530	-4.586	1.00	0.00	H
ATOM	138	1HG	PRO A	12128.207	12.226	-2.173	1.00	0.00	H
ATOM	139	2HG	PRO A	12127.582	11.337	-3.576	1.00	0.00	H
ATOM	140	1HD	PRO A	12129.305	10.376	-1.332	1.00	0.00	H
ATOM	141	2HD	PRO A	12127.996	9.540	-2.191	1.00	0.00	H
ATOM	142	N	GLY A	13132.425	10.421	-3.135	1.00	0.00	N
ATOM	143	CA	GLY A	13133.869	10.526	-3.041	1.00	0.00	C
ATOM	144	C	GLY A	13134.548	9.171	-3.011	1.00	0.00	C
ATOM	145	O	GLY A	13134.346	8.390	-2.081	1.00	0.00	O
ATOM	146	H	GLY A	13131.911	10.064	-2.379	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.235	11.081	-3.893	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.121	11.064	-2.140	1.00	0.00	H
ATOM	149	N	ASN A	14135.355	8.893	-4.030	1.00	0.00	N
ATOM	150	CA	ASN A	14136.070	7.624	-4.121	1.00	0.00	C
ATOM	151	C	ASN A	14135.095	6.455	-4.250	1.00	0.00	C
ATOM	152	O	ASN A	14134.876	5.936	-5.343	1.00	0.00	O
ATOM	153	CB	ASN A	14136.968	7.426	-2.897	1.00	0.00	C
ATOM	154	CG	ASN A	14138.359	7.995	-3.103	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.010	7.725	-4.111	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.821	8.788	-2.142	1.00	0.00	N
ATOM	157	H	ASN A	14135.474	9.559	-4.739	1.00	0.00	H
ATOM	158	HA	ASN A	14136.689	7.657	-5.007	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.521	7.919	-2.047	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.057	6.370	-2.691	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.247	8.959	-1.367	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.718	9.169	-2.249	1.00	0.00	H

ATOM	163	N	SER A	15134.515	6.046	-3.127	1.00	0.00	N
ATOM	164	CA	SER A	15133.565	4.939	-3.117	1.00	0.00	C
ATOM	165	C	SER A	15132.890	4.813	-1.754	1.00	0.00	C
ATOM	166	O	SER A	15131.665	4.742	-1.661	1.00	0.00	O
ATOM	167	CB	SER A	15134.272	3.631	-3.474	1.00	0.00	C
ATOM	168	OG	SER A	15134.250	3.404	-4.872	1.00	0.00	O
ATOM	169	H	SER A	15134.729	6.499	-2.284	1.00	0.00	H
ATOM	170	HA	SER A	15132.810	5.145	-3.860	1.00	0.00	H
ATOM	171	1HB	SER A	15135.300	3.679	-3.146	1.00	0.00	H
ATOM	172	2HB	SER A	15133.775	2.810	-2.979	1.00	0.00	H
ATOM	173	HG	SER A	15133.395	3.050	-5.126	1.00	0.00	H
ATOM	174	N	HIS A	16133.700	4.782	-0.700	1.00	0.00	N
ATOM	175	CA	HIS A	16133.181	4.663	0.658	1.00	0.00	C
ATOM	176	C	HIS A	16133.957	5.561	1.616	1.00	0.00	C
ATOM	177	O	HIS A	16133.368	6.325	2.381	1.00	0.00	O
ATOM	178	CB	HIS A	16133.256	3.209	1.128	1.00	0.00	C
ATOM	179	CG	HIS A	16132.082	2.382	0.704	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.777	2.815	0.814	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.021	1.141	0.165	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.965	1.876	0.363	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.694	0.851	-0.037	1.00	0.00	N
ATOM	184	H	HIS A	16134.668	4.842	-0.839	1.00	0.00	H
ATOM	185	HA	HIS A	16132.148	4.976	0.646	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.147	2.752	0.723	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.305	3.190	2.207	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.490	3.681	1.170	1.00	0.00	H
ATOM	189	HD2	HIS A	16132.860	0.498	-0.063	1.00	0.00	H

ATOM	190	HE1	HIS A	16128.886	1.937	0.326	1.00	0.00	H
ATOM	191	HE2	HIS A	16130.349	0.055	-0.493	1.00	0.00	H
ATOM	192	N	GLY A	17135.281	5.462	1.570	1.00	0.00	N
ATOM	193	CA	GLY A	17136.116	6.270	2.439	1.00	0.00	C
ATOM	194	C	GLY A	17137.527	5.730	2.556	1.00	0.00	C
ATOM	195	O	GLY A	17137.929	5.249	3.616	1.00	0.00	O
ATOM	196	H	GLY A	17135.695	4.835	0.940	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.159	7.275	2.045	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.670	6.300	3.423	1.00	0.00	H
ATOM	199	N	LEU A	18138.281	5.808	1.465	1.00	0.00	N
ATOM	200	CA	LEU A	18139.656	5.322	1.450	1.00	0.00	C
ATOM	201	C	LEU A	18140.620	6.402	1.933	1.00	0.00	C
ATOM	202	O	LEU A	18141.030	7.271	1.163	1.00	0.00	O
ATOM	203	CB	LEU A	18140.044	4.868	0.041	1.00	0.00	C
ATOM	204	CG	LEU A	18139.195	3.731	-0.529	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.488	3.537	-2.008	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.449	2.442	0.239	1.00	0.00	C
ATOM	207	H	LEU A	18137.904	6.201	0.650	1.00	0.00	H
ATOM	208	HA	LEU A	18139.716	4.477	2.119	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.963	5.717	-0.622	1.00	0.00	H
ATOM	210	2HB	LEU A	18141.073	4.545	0.060	1.00	0.00	H
ATOM	211	HG	LEU A	18138.150	3.983	-0.427	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.057	4.351	-2.571	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.059	2.603	-2.341	1.00	0.00	H
ATOM	214	3HD1	LEU A	18140.556	3.519	-2.165	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.540	1.857	0.270	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.758	2.678	1.246	1.00	0.00	H

ATOM	217	3HD2	LEU A	18140.225	1.876	-0.253	1.00	0.00	H
ATOM	218	N	GLU A	19140.977	6.339	3.211	1.00	0.00	N
ATOM	219	CA	GLU A	19141.893	7.311	3.797	1.00	0.00	C
ATOM	220	C	GLU A	19142.846	6.637	4.778	1.00	0.00	C
ATOM	221	O	GLU A	19142.725	5.444	5.056	1.00	0.00	O
ATOM	222	CB	GLU A	19141.110	8.417	4.507	1.00	0.00	C
ATOM	223	CG	GLU A	19140.122	7.896	5.539	1.00	0.00	C
ATOM	224	CD	GLU A	19140.471	8.328	6.951	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.621	7.444	7.820	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.593	9.548	7.186	1.00	0.00	O
ATOM	227	H	GLU A	19140.616	5.622	3.774	1.00	0.00	H
ATOM	228	HA	GLU A	19142.469	7.748	2.995	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.808	9.073	5.005	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.561	8.984	3.769	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.139	8.272	5.298	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.114	6.817	5.499	1.00	0.00	H
ATOM	233	N	VAL A	20143.793	7.409	5.300	1.00	0.00	N
ATOM	234	CA	VAL A	20144.767	6.887	6.251	1.00	0.00	C
ATOM	235	C	VAL A	20144.077	6.297	7.478	1.00	0.00	C
ATOM	236	O	VAL A	20143.175	6.909	8.049	1.00	0.00	O
ATOM	237	CB	VAL A	20145.752	7.981	6.705	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.849	7.389	7.575	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.345	8.696	5.500	1.00	0.00	C
ATOM	240	H	VAL A	20143.838	8.353	5.041	1.00	0.00	H
ATOM	241	HA	VAL A	20145.330	6.108	5.758	1.00	0.00	H
ATOM	242	HB	VAL A	20145.208	8.705	7.294	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.749	7.978	7.472	1.00	0.00	H

ATOM	244	2HG1	VAL A	20147.046	6.373	7.266	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.532	7.395	8.609	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.395	8.014	4.665	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.339	9.044	5.741	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.722	9.539	5.239	1.00	0.00	H
ATOM	249	N	GLY A	21144.509	5.104	7.877	1.00	0.00	N
ATOM	250	CA	GLY A	21143.922	4.453	9.033	1.00	0.00	C
ATOM	251	C	GLY A	21142.847	3.454	8.652	1.00	0.00	C
ATOM	252	O	GLY A	21142.616	2.479	9.367	1.00	0.00	O
ATOM	253	H	GLY A	21145.231	4.664	7.383	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.700	3.939	9.577	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.486	5.205	9.674	1.00	0.00	H
ATOM	256	N	SER A	22142.190	3.695	7.523	1.00	0.00	N
ATOM	257	CA	SER A	22141.135	2.808	7.047	1.00	0.00	C
ATOM	258	C	SER A	22141.722	1.621	6.290	1.00	0.00	C
ATOM	259	O	SER A	22142.824	1.701	5.748	1.00	0.00	O
ATOM	260	CB	SER A	22140.164	3.572	6.146	1.00	0.00	C
ATOM	261	OG	SER A	22139.411	4.514	6.891	1.00	0.00	O
ATOM	262	H	SER A	22142.420	4.488	6.996	1.00	0.00	H
ATOM	263	HA	SER A	22140.599	2.440	7.909	1.00	0.00	H
ATOM	264	1HB	SER A	22140.721	4.097	5.384	1.00	0.00	H
ATOM	265	2HB	SER A	22139.484	2.874	5.679	1.00	0.00	H
ATOM	266	HG	SER A	22139.102	4.107	7.703	1.00	0.00	H
ATOM	267	N	LEU A	23140.979	0.519	6.258	1.00	0.00	N
ATOM	268	CA	LEU A	23141.426	-0.685	5.568	1.00	0.00	C
ATOM	269	C	LEU A	23140.955	-0.688	4.116	1.00	0.00	C
ATOM	270	O	LEU A	23139.917	-0.113	3.790	1.00	0.00	O

ATOM	271	CB	LEU A	23140.909	-1.932	6.287	1.00	0.00	C
ATOM	272	CG	LEU A	23141.123	-1.943	7.801	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.024	-2.738	8.489	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.490	-2.518	8.139	1.00	0.00	C
ATOM	275	H	LEU A	23140.110	0.516	6.709	1.00	0.00	H
ATOM	276	HA	LEU A	23142.506	-0.694	5.583	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.849	-2.019	6.092	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.406	-2.795	5.869	1.00	0.00	H
ATOM	279	HG	LEU A	23141.084	-0.930	8.171	1.00	0.00	H
ATOM	280	1HD1	LEU A	23139.188	-2.087	8.700	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.403	-3.150	9.412	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.702	-3.541	7.843	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.155	-2.385	7.298	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.394	-3.570	8.361	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.893	-2.004	9.000	1.00	0.00	H
ATOM	286	N	ALA A	24141.724	-1.339	3.251	1.00	0.00	N
ATOM	287	CA	ALA A	24141.385	-1.418	1.835	1.00	0.00	C
ATOM	288	C	ALA A	24142.041	-2.628	1.179	1.00	0.00	C
ATOM	289	O	ALA A	24143.016	-3.174	1.693	1.00	0.00	O
ATOM	290	CB	ALA A	24141.802	-0.139	1.123	1.00	0.00	C
ATOM	291	H	ALA A	24142.540	-1.778	3.572	1.00	0.00	H
ATOM	292	HA	ALA A	24140.313	-1.513	1.755	1.00	0.00	H
ATOM	293	1HB	ALA A	24140.980	0.563	1.133	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.068	-0.367	0.101	1.00	0.00	H
ATOM	295	3HB	ALA A	24142.652	0.294	1.628	1.00	0.00	H
ATOM	296	N	GLU A	25141.498	-3.042	0.039	1.00	0.00	N
ATOM	297	CA	GLU A	25142.029	-4.188	-0.691	1.00	0.00	C

ATOM	298	C	GLU A	25142.552	-3.765	-2.060	1.00	0.00	C
ATOM	299	O	GLU A	25142.262	-2.666	-2.533	1.00	0.00	O
ATOM	300	CB	GLU A	25140.950	-5.261	-0.853	1.00	0.00	C
ATOM	301	CG	GLU A	25141.492	-6.603	-1.318	1.00	0.00	C
ATOM	302	CD	GLU A	25140.474	-7.720	-1.184	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.261	-7.428	-1.239	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.891	-8.886	-1.025	1.00	0.00	O
ATOM	305	H	GLU A	25140.721	-2.564	-0.322	1.00	0.00	H
ATOM	306	HA	GLU A	25142.847	-4.597	-0.116	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.457	-5.406	0.097	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.225	-4.919	-1.576	1.00	0.00	H
ATOM	309	1HG	GLU A	25141.779	-6.522	-2.355	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.358	-6.852	-0.724	1.00	0.00	H
ATOM	311	N	VAL A	26143.325	-4.643	-2.692	1.00	0.00	N
ATOM	312	CA	VAL A	26143.887	-4.358	-4.006	1.00	0.00	C
ATOM	313	C	VAL A	26143.611	-5.497	-4.981	1.00	0.00	C
ATOM	314	O	VAL A	26143.746	-6.670	-4.634	1.00	0.00	O
ATOM	315	CB	VAL A	26145.407	-4.122	-3.927	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.941	-3.628	-5.263	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.737	-3.136	-2.817	1.00	0.00	C
ATOM	318	H	VAL A	26143.521	-5.503	-2.264	1.00	0.00	H
ATOM	319	HA	VAL A	26143.423	-3.457	-4.380	1.00	0.00	H
ATOM	320	HB	VAL A	26145.887	-5.062	-3.699	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.299	-3.976	-6.058	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.941	-4.011	-5.414	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.966	-2.549	-5.265	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.399	-2.150	-3.097	1.00	0.00	H

ATOM	325	2HG2 VAL A	26146.805	-3.118	-2.657	1.00	0.00	H
ATOM	326	3HG2 VAL A	26145.242	-3.441	-1.907	1.00	0.00	H
ATOM	327	N LYS A	27143.225	-5.144	-6.202	1.00	0.00	N
ATOM	328	CA LYS A	27142.931	-6.138	-7.228	1.00	0.00	C
ATOM	329	C LYS A	27144.213	-6.784	-7.743	1.00	0.00	C
ATOM	330	O LYS A	27144.796	-6.331	-8.729	1.00	0.00	O
ATOM	331	CB LYS A	27142.165	-5.494	-8.386	1.00	0.00	C
ATOM	332	CG LYS A	27140.656	-5.617	-8.258	1.00	0.00	C
ATOM	333	CD LYS A	27139.937	-4.761	-9.289	1.00	0.00	C
ATOM	334	CE LYS A	27138.651	-4.173	-8.729	1.00	0.00	C
ATOM	335	NZ LYS A	27137.511	-4.327	-9.674	1.00	0.00	N
ATOM	336	H LYS A	27143.137	-4.192	-6.420	1.00	0.00	H
ATOM	337	HA LYS A	27142.313	-6.901	-6.780	1.00	0.00	H
ATOM	338	1HB LYS A	27142.417	-4.445	-8.430	1.00	0.00	H
ATOM	339	2HB LYS A	27142.466	-5.968	-9.309	1.00	0.00	H
ATOM	340	1HG LYS A	27140.374	-6.649	-8.404	1.00	0.00	H
ATOM	341	2HG LYS A	27140.361	-5.297	-7.270	1.00	0.00	H
ATOM	342	1HD LYS A	27140.588	-3.954	-9.590	1.00	0.00	H
ATOM	343	2HD LYS A	27139.699	-5.372	-10.146	1.00	0.00	H
ATOM	344	1HE LYS A	27138.411	-4.677	-7.804	1.00	0.00	H
ATOM	345	2HE LYS A	27138.807	-3.121	-8.533	1.00	0.00	H
ATOM	346	1HZ LYS A	27137.204	-5.320	-9.704	1.00	0.00	H
ATOM	347	2HZ LYS A	27137.797	-4.036	-10.630	1.00	0.00	H
ATOM	348	3HZ LYS A	27136.711	-3.737	-9.369	1.00	0.00	H
ATOM	349	N GLU A	28144.647	-7.844	-7.069	1.00	0.00	N
ATOM	350	CA GLU A	28145.860	-8.555	-7.456	1.00	0.00	C
ATOM	351	C GLU A	28145.671	-10.063	-7.313	1.00	0.00	C

ATOM	352	O	GLU A	28144.752	-10.520	-6.634	1.00	0.00	O
ATOM	353	CB	GLU A	28147.042	-8.086	-6.602	1.00	0.00	C
ATOM	354	CG	GLU A	28148.215	-7.571	-7.419	1.00	0.00	C
ATOM	355	CD	GLU A	28149.010	-8.687	-8.068	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.929	-9.220	-7.412	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.712	-9.029	-9.231	1.00	0.00	O
ATOM	358	H	GLU A	28144.138	-8.155	-6.291	1.00	0.00	H
ATOM	359	HA	GLU A	28146.062	-8.326	-8.491	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.707	-7.291	-5.952	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.387	-8.911	-5.996	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.840	-6.920	-8.194	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.872	-7.011	-6.768	1.00	0.00	H
ATOM	364	N	ASN A	29146.545	-10.831	-7.956	1.00	0.00	N
ATOM	365	CA	ASN A	29146.468	-12.286	-7.898	1.00	0.00	C
ATOM	366	C	ASN A	29146.578	-12.786	-6.458	1.00	0.00	C
ATOM	367	O	ASN A	29145.726	-13.544	-5.994	1.00	0.00	O
ATOM	368	CB	ASN A	29147.560	-12.922	-8.764	1.00	0.00	C
ATOM	369	CG	ASN A	29147.714	-12.234	-10.106	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.896	-12.416	-11.008	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.768	-11.437	-10.245	1.00	0.00	N
ATOM	372	H	ASN A	29147.257	-10.409	-8.482	1.00	0.00	H
ATOM	373	HA	ASN A	29145.504	-12.576	-8.288	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.502	-12.869	-8.243	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.312	-13.959	-8.939	1.00	0.00	H
ATOM	376	1HD2	ASN A	29149.378	-11.340	-9.485	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.892	-10.980	-11.102	1.00	0.00	H
ATOM	378	N	PRO A	30147.627	-12.366	-5.721	1.00	0.00	N

ATOM	379	CA	PRO A	30147.823	-12.783	-4.329	1.00	0.00	C
ATOM	380	C	PRO A	30146.865	-12.075	-3.372	1.00	0.00	C
ATOM	381	O	PRO A	30146.976	-10.868	-3.155	1.00	0.00	O
ATOM	382	CB	PRO A	30149.265	-12.367	-4.042	1.00	0.00	C
ATOM	383	CG	PRO A	30149.496	-11.195	-4.930	1.00	0.00	C
ATOM	384	CD	PRO A	30148.698	-11.457	-6.179	1.00	0.00	C
ATOM	385	HA	PRO A	30147.725	-13.853	-4.217	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.365	-12.102	-2.999	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.933	-13.180	-4.280	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.150	-10.293	-4.446	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.546	-11.115	-5.167	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.286	-10.535	-6.561	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.316	-11.932	-6.923	1.00	0.00	H
ATOM	392	N	PRO A	31145.906	-12.813	-2.784	1.00	0.00	N
ATOM	393	CA	PRO A	31144.930	-12.241	-1.850	1.00	0.00	C
ATOM	394	C	PRO A	31145.590	-11.713	-0.581	1.00	0.00	C
ATOM	395	O	PRO A	31145.765	-12.448	0.391	1.00	0.00	O
ATOM	396	CB	PRO A	31144.001	-13.417	-1.519	1.00	0.00	C
ATOM	397	CG	PRO A	31144.257	-14.435	-2.578	1.00	0.00	C
ATOM	398	CD	PRO A	31145.692	-14.255	-2.980	1.00	0.00	C
ATOM	399	HA	PRO A	31144.361	-11.448	-2.313	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.239	-13.801	-0.538	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.973	-13.082	-1.537	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.100	-15.427	-2.181	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.607	-14.259	-3.422	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.340	-14.834	-2.339	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.834	-14.531	-4.014	1.00	0.00	H

ATOM	406	N	PHE A	32145.952	-10.435	-0.595	1.00	0.00	N
ATOM	407	CA	PHE A	32146.592	-9.808	0.557	1.00	0.00	C
ATOM	408	C	PHE A	32145.757	-8.643	1.076	1.00	0.00	C
ATOM	409	O	PHE A	32145.181	-7.883	0.297	1.00	0.00	O
ATOM	410	CB	PHE A	32147.994	-9.321	0.186	1.00	0.00	C
ATOM	411	CG	PHE A	32148.015	-8.391	-0.994	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.523	-8.809	-2.213	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.527	-7.099	-0.882	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.543	-7.956	-3.300	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.545	-6.241	-1.966	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.055	-6.671	-3.176	1.00	0.00	C
ATOM	417	H	PHE A	32145.786	-9.899	-1.399	1.00	0.00	H
ATOM	418	HA	PHE A	32146.674	-10.552	1.335	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.419	-8.797	1.029	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.613	-10.174	-0.051	1.00	0.00	H
ATOM	421	HD1	PHE A	32148.905	-9.814	-2.311	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.129	-6.763	0.063	1.00	0.00	H
ATOM	423	HE1	PHE A	32148.943	-8.294	-4.245	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.161	-5.236	-1.866	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.069	-6.002	-4.024	1.00	0.00	H
ATOM	426	N	TYR A	33145.693	-8.510	2.396	1.00	0.00	N
ATOM	427	CA	TYR A	33144.927	-7.438	3.020	1.00	0.00	C
ATOM	428	C	TYR A	33145.848	-6.469	3.756	1.00	0.00	C
ATOM	429	O	TYR A	33146.851	-6.875	4.343	1.00	0.00	O
ATOM	430	CB	TYR A	33143.897	-8.017	3.993	1.00	0.00	C
ATOM	431	CG	TYR A	33142.585	-8.384	3.336	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.091	-9.681	3.404	1.00	0.00	C

ATOM	433	CD2 TYR A	33141.841	-7.434	2.647	1.00	0.00	C
ATOM	434	CE1 TYR A	33140.893	-10.021	2.806	1.00	0.00	C
ATOM	435	CE2 TYR A	33140.642	-7.766	2.047	1.00	0.00	C
ATOM	436	CZ TYR A	33140.173	-9.060	2.128	1.00	0.00	C
ATOM	437	OH TYR A	33138.979	-9.394	1.531	1.00	0.00	O
ATOM	438	H TYR A	33146.173	-9.148	2.965	1.00	0.00	H
ATOM	439	HA TYR A	33144.409	-6.901	2.240	1.00	0.00	H
ATOM	440	1HB TYR A	33144.302	-8.910	4.446	1.00	0.00	H
ATOM	441	2HB TYR A	33143.691	-7.290	4.764	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.658	-10.432	3.937	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.212	-6.422	2.585	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.525	-11.034	2.870	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.079	-7.013	1.516	1.00	0.00	H
ATOM	446	HH TYR A	33139.062	-10.249	1.103	1.00	0.00	H
ATOM	447	N GLY A	34145.499	-5.187	3.720	1.00	0.00	N
ATOM	448	CA GLY A	34146.305	-4.181	4.387	1.00	0.00	C
ATOM	449	C GLY A	34145.514	-2.932	4.719	1.00	0.00	C
ATOM	450	O GLY A	34144.341	-2.817	4.363	1.00	0.00	O
ATOM	451	H GLY A	34144.688	-4.922	3.237	1.00	0.00	H
ATOM	452	1HA GLY A	34146.698	-4.599	5.303	1.00	0.00	H
ATOM	453	2HA GLY A	34147.129	-3.912	3.744	1.00	0.00	H
ATOM	454	N VAL A	35146.158	-1.992	5.406	1.00	0.00	N
ATOM	455	CA VAL A	35145.509	-0.744	5.787	1.00	0.00	C
ATOM	456	C VAL A	35146.233	0.457	5.185	1.00	0.00	C
ATOM	457	O VAL A	35147.455	0.447	5.037	1.00	0.00	O
ATOM	458	CB VAL A	35145.454	-0.586	7.320	1.00	0.00	C
ATOM	459	CG1 VAL A	35146.856	-0.544	7.909	1.00	0.00	C

ATOM	460	CG2	VAL A	35144.668	0.660	7.704	1.00	0.00	C
ATOM	461	H	VAL A	35147.092	-2.143	5.661	1.00	0.00	H
ATOM	462	HA	VAL A	35144.496	-0.767	5.412	1.00	0.00	H
ATOM	463	HB	VAL A	35144.943	-1.445	7.731	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.558	-0.950	7.195	1.00	0.00	H
ATOM	465	2HG1	VAL A	35146.884	-1.131	8.815	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.122	0.479	8.134	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.784	0.847	8.761	1.00	0.00	H
ATOM	468	2HG2	VAL A	35143.623	0.511	7.476	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.041	1.506	7.146	1.00	0.00	H
ATOM	470	N	ILE A	36145.471	1.489	4.839	1.00	0.00	N
ATOM	471	CA	ILE A	36146.040	2.697	4.254	1.00	0.00	C
ATOM	472	C	ILE A	36146.923	3.427	5.259	1.00	0.00	C
ATOM	473	O	ILE A	36146.554	3.588	6.423	1.00	0.00	O
ATOM	474	CB	ILE A	36144.940	3.656	3.758	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.946	2.911	2.864	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.556	4.830	3.011	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.842	3.792	2.320	1.00	0.00	C
ATOM	478	H	ILE A	36144.502	1.437	4.982	1.00	0.00	H
ATOM	479	HA	ILE A	36146.642	2.404	3.405	1.00	0.00	H
ATOM	480	HB	ILE A	36144.417	4.045	4.620	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.475	2.488	2.024	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.487	2.116	3.433	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.023	5.736	3.261	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.488	4.655	1.947	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.593	4.933	3.293	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.744	3.629	1.256	1.00	0.00	H

ATOM	487	2HD1	ILE A	36143.084	4.828	2.505	1.00	0.00	H
ATOM	488	3HD1	ILE A	36141.911	3.546	2.810	1.00	0.00	H
ATOM	489	N	ARG A	37148.092	3.867	4.803	1.00	0.00	N
ATOM	490	CA	ARG A	37149.029	4.580	5.663	1.00	0.00	C
ATOM	491	C	ARG A	37149.269	5.996	5.154	1.00	0.00	C
ATOM	492	O	ARG A	37148.892	6.972	5.803	1.00	0.00	O
ATOM	493	CB	ARG A	37150.356	3.822	5.743	1.00	0.00	C
ATOM	494	CG	ARG A	37150.197	2.352	6.097	1.00	0.00	C
ATOM	495	CD	ARG A	37150.021	2.156	7.594	1.00	0.00	C
ATOM	496	NE	ARG A	37148.758	2.713	8.076	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.512	3.000	9.352	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.439	2.784	10.277	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.338	3.504	9.704	1.00	0.00	N
ATOM	500	H	ARG A	37148.330	3.708	3.865	1.00	0.00	H
ATOM	501	HA	ARG A	37148.597	4.635	6.651	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.853	3.888	4.786	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.978	4.286	6.494	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.327	1.962	5.589	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.077	1.817	5.773	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.043	1.100	7.811	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.836	2.645	8.106	1.00	0.00	H
ATOM	508	HE	ARG A	37148.056	2.880	7.413	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.326	2.403	10.019	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.249	3.002	11.235	1.00	0.00	H
ATOM	511	1HH2	ARG A	37146.636	3.668	9.010	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.153	3.719	10.663	1.00	0.00	H
ATOM	513	N	TRP A	38149.898	6.105	3.988	1.00	0.00	N

ATOM	514	CA	TRPA	38150.187	7.404	3.394	1.00	0.00	C
ATOM	515	C	TRPA	38149.545	7.532	2.015	1.00	0.00	C
ATOM	516	O	TRPA	38149.685	6.650	1.169	1.00	0.00	O
ATOM	517	CB	TRPA	38151.700	7.620	3.290	1.00	0.00	C
ATOM	518	CG	TRPA	38152.081	8.807	2.453	1.00	0.00	C
ATOM	519	CD1	TRPA	38152.290	10.084	2.887	1.00	0.00	C
ATOM	520	CD2	TRPA	38152.288	8.824	1.036	1.00	0.00	C
ATOM	521	NE1	TRPA	38152.615	10.894	1.826	1.00	0.00	N
ATOM	522	CE2	TRPA	38152.621	10.144	0.679	1.00	0.00	C
ATOM	523	CE3	TRPA	38152.226	7.851	0.035	1.00	0.00	C
ATOM	524	CZ2	TRPA	38152.890	10.514	-0.637	1.00	0.00	C
ATOM	525	CZ3	TRPA	38152.494	8.218	-1.270	1.00	0.00	C
ATOM	526	CH2	TRPA	38152.823	9.540	-1.596	1.00	0.00	C
ATOM	527	H	TRPA	38150.175	5.290	3.516	1.00	0.00	H
ATOM	528	HA	TRPA	38149.770	8.163	4.041	1.00	0.00	H
ATOM	529	1HB	TRPA	38152.106	7.768	4.280	1.00	0.00	H
ATOM	530	2HB	TRPA	38152.152	6.742	2.850	1.00	0.00	H
ATOM	531	HD1	TRPA	38152.207	10.398	3.917	1.00	0.00	H
ATOM	532	HE1	TRPA	38152.812	11.853	1.882	1.00	0.00	H
ATOM	533	HE3	TRPA	38151.975	6.827	0.266	1.00	0.00	H
ATOM	534	HZ2	TRPA	38153.142	11.529	-0.906	1.00	0.00	H
ATOM	535	HZ3	TRPA	38152.451	7.480	-2.057	1.00	0.00	H
ATOM	536	HH2	TRPA	38153.025	9.783	-2.630	1.00	0.00	H
ATOM	537	N	ILE A	39148.851	8.643	1.797	1.00	0.00	N
ATOM	538	CA	ILE A	39148.196	8.901	0.522	1.00	0.00	C
ATOM	539	C	ILE A	39148.696	10.208	-0.082	1.00	0.00	C
ATOM	540	O	ILE A	39148.342	11.292	0.385	1.00	0.00	O

ATOM	541	CB	ILE A	39146.665	8.969	0.676	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.155	7.763	1.468	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.997	9.034	-0.689	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.700	7.873	1.867	1.00	0.00	C
ATOM	545	H	ILE A	39148.784	9.312	2.511	1.00	0.00	H
ATOM	546	HA	ILE A	39148.436	8.089	-0.149	1.00	0.00	H
ATOM	547	HB	ILE A	39146.419	9.873	1.212	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.267	6.872	0.867	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.741	7.659	2.369	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.932	9.165	-0.563	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.186	8.116	-1.227	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.398	9.867	-1.247	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.343	8.870	1.656	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.601	7.672	2.924	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.118	7.156	1.308	1.00	0.00	H
ATOM	556	N	GLY A	40149.524	10.102	-1.116	1.00	0.00	N
ATOM	557	CA	GLY A	40150.062	11.288	-1.754	1.00	0.00	C
ATOM	558	C	GLY A	40150.687	10.994	-3.103	1.00	0.00	C
ATOM	559	O	GLY A	40150.507	9.911	-3.657	1.00	0.00	O
ATOM	560	H	GLY A	40149.775	9.213	-1.443	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.266	12.005	-1.886	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.812	11.719	-1.108	1.00	0.00	H
ATOM	563	N	GLN A	41151.419	11.969	-3.631	1.00	0.00	N
ATOM	564	CA	GLN A	41152.074	11.822	-4.923	1.00	0.00	C
ATOM	565	C	GLN A	41153.553	12.199	-4.826	1.00	0.00	C
ATOM	566	O	GLN A	41153.888	13.351	-4.553	1.00	0.00	O
ATOM	567	CB	GLN A	41151.378	12.701	-5.960	1.00	0.00	C

ATOM	568	CG	GLN A	41149.865	12.552	-5.965	1.00	0.00	C
ATOM	569	CD	GLN A	41149.150	13.875	-6.144	1.00	0.00	C
ATOM	570	OE1	GLN A	41149.087	14.690	-5.223	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.605	14.096	-7.334	1.00	0.00	N
ATOM	572	H	GLN A	41151.520	12.810	-3.140	1.00	0.00	H
ATOM	573	HA	GLN A	41151.991	10.790	-5.225	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.613	13.735	-5.756	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.747	12.445	-6.940	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.582	11.896	-6.775	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.556	12.115	-5.027	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.695	13.401	-8.019	1.00	0.00	H
ATOM	579	2HE2	GLN A	41148.137	14.944	-7.479	1.00	0.00	H
ATOM	580	N	PRO A	42154.461	11.230	-5.046	1.00	0.00	N
ATOM	581	CA	PRO A	42155.905	11.476	-4.976	1.00	0.00	C
ATOM	582	C	PRO A	42156.352	12.574	-5.936	1.00	0.00	C
ATOM	583	O	PRO A	42155.656	12.888	-6.902	1.00	0.00	O
ATOM	584	CB	PRO A	42156.522	10.133	-5.379	1.00	0.00	C
ATOM	585	CG	PRO A	42155.458	9.127	-5.104	1.00	0.00	C
ATOM	586	CD	PRO A	42154.157	9.826	-5.377	1.00	0.00	C
ATOM	587	HA	PRO A	42156.214	11.730	-3.974	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.785	10.154	-6.427	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.404	9.945	-4.785	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.573	8.279	-5.761	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.506	8.815	-4.071	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.885	9.725	-6.418	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.377	9.439	-4.739	1.00	0.00	H
ATOM	594	N	PRO A	43157.525	13.177	-5.681	1.00	0.00	N

ATOM	595	CA	PRO A	43158.062	14.246	-6.528	1.00	0.00	C
ATOM	596	C	PRO A	43158.558	13.725	-7.871	1.00	0.00	C
ATOM	597	O	PRO A	43159.736	13.402	-8.026	1.00	0.00	O
ATOM	598	CB	PRO A	43159.228	14.795	-5.708	1.00	0.00	C
ATOM	599	CG	PRO A	43159.660	13.656	-4.852	1.00	0.00	C
ATOM	600	CD	PRO A	43158.418	12.864	-4.549	1.00	0.00	C
ATOM	601	HA	PRO A	43157.333	15.026	-6.691	1.00	0.00	H
ATOM	602	1HB	PRO A	43160.017	15.113	-6.372	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.892	15.631	-5.112	1.00	0.00	H
ATOM	604	1HG	PRO A	43160.373	13.045	-5.386	1.00	0.00	H
ATOM	605	2HG	PRO A	43160.098	14.029	-3.937	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.642	11.808	-4.517	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.982	13.186	-3.616	1.00	0.00	H
ATOM	608	N	GLY A	44157.654	13.647	-8.841	1.00	0.00	N
ATOM	609	CA	GLY A	44158.024	13.165	-10.157	1.00	0.00	C
ATOM	610	C	GLY A	44156.836	12.647	-10.941	1.00	0.00	C
ATOM	611	O	GLY A	44156.629	13.029	-12.093	1.00	0.00	O
ATOM	612	H	GLY A	44156.730	13.918	-8.661	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.479	13.973	-10.709	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.745	12.368	-10.048	1.00	0.00	H
ATOM	615	N	LEU A	45156.053	11.772	-10.319	1.00	0.00	N
ATOM	616	CA	LEU A	45154.879	11.202	-10.969	1.00	0.00	C
ATOM	617	C	LEU A	45153.616	11.510	-10.175	1.00	0.00	C
ATOM	618	O	LEU A	45153.442	11.024	-9.058	1.00	0.00	O
ATOM	619	CB	LEU A	45155.041	9.689	-11.125	1.00	0.00	C
ATOM	620	CG	LEU A	45155.515	8.954	-9.869	1.00	0.00	C
ATOM	621	CD1	LEU A	45155.162	7.475	-9.947	1.00	0.00	C

ATOM	622	CD2	LEU A	45157.014	9.142	-9.678	1.00	0.00	C
ATOM	623	H	LEU A	45156.268	11.505	-9.398	1.00	0.00	H
ATOM	624	HA	LEU A	45154.794	11.648	-11.948	1.00	0.00	H
ATOM	625	1HB	LEU A	45154.087	9.275	-11.421	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.755	9.503	-11.913	1.00	0.00	H
ATOM	627	HG	LEU A	45155.013	9.372	-9.007	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.447	7.235	-9.174	1.00	0.00	H
ATOM	629	2HD1	LEU A	45156.054	6.882	-9.808	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.733	7.256	-10.913	1.00	0.00	H
ATOM	631	1HD2	LEU A	45157.190	9.824	-8.860	1.00	0.00	H
ATOM	632	2HD2	LEU A	45157.446	9.547	-10.581	1.00	0.00	H
ATOM	633	3HD2	LEU A	45157.472	8.189	-9.457	1.00	0.00	H
ATOM	634	N	ASN A	46152.733	12.316	-10.757	1.00	0.00	N
ATOM	635	CA	ASN A	46151.489	12.675	-10.091	1.00	0.00	C
ATOM	636	C	ASN A	46150.524	11.495	-10.090	1.00	0.00	C
ATOM	637	O	ASN A	46149.963	11.136	-11.126	1.00	0.00	O
ATOM	638	CB	ASN A	46150.846	13.877	-10.787	1.00	0.00	C
ATOM	639	CG	ASN A	46149.797	14.553	-9.926	1.00	0.00	C
ATOM	640	OD1	ASN A	46150.121	15.335	-9.032	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.530	14.254	-10.192	1.00	0.00	N
ATOM	642	H	ASN A	46152.923	12.673	-11.649	1.00	0.00	H
ATOM	643	HA	ASN A	46151.720	12.939	-9.070	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.612	14.600	-11.022	1.00	0.00	H
ATOM	645	2HB	ASN A	46150.376	13.546	-11.701	1.00	0.00	H
ATOM	646	1HD2	ASN A	46148.347	13.622	-10.919	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.831	14.677	-9.651	1.00	0.00	H
ATOM	648	N	GLU A	47150.338	10.894	-8.921	1.00	0.00	N

ATOM	649	CA	GLU A	47149.443	9.754	-8.778	1.00	0.00 C
ATOM	650	C	GLU A	47149.162	9.466	-7.308	1.00	0.00 C
ATOM	651	O	GLU A	47150.081	9.199	-6.533	1.00	0.00 O
ATOM	652	CB	GLU A	47150.045	8.515	-9.446	1.00	0.00 C
ATOM	653	CG	GLU A	47151.547	8.381	-9.246	1.00	0.00 C
ATOM	654	CD	GLU A	47152.173	7.370	-10.187	1.00	0.00 C
ATOM	655	OE1	GLU A	47152.385	6.215	-9.762	1.00	0.00 O
ATOM	656	OE2	GLU A	47152.450	7.733	-11.350	1.00	0.00 O
ATOM	657	H	GLU A	47150.816	11.227	-8.133	1.00	0.00 H
ATOM	658	HA	GLU A	47148.513	9.999	-9.269	1.00	0.00 H
ATOM	659	1HB	GLU A	47149.571	7.634	-9.039	1.00	0.00 H
ATOM	660	2HB	GLU A	47149.849	8.561	-10.507	1.00	0.00 H
ATOM	661	1HG	GLU A	47152.009	9.342	-9.419	1.00	0.00 H
ATOM	662	2HG	GLU A	47151.737	8.070	-8.229	1.00	0.00 H
ATOM	663	N	VAL A	48147.890	9.511	-6.928	1.00	0.00 N
ATOM	664	CA	VAL A	48147.501	9.244	-5.550	1.00	0.00 C
ATOM	665	C	VAL A	48147.787	7.793	-5.183	1.00	0.00 C
ATOM	666	O	VAL A	48147.023	6.893	-5.532	1.00	0.00 O
ATOM	667	CB	VAL A	48146.007	9.539	-5.318	1.00	0.00 C
ATOM	668	CG1	VAL A	48145.668	9.451	-3.838	1.00	0.00 C
ATOM	669	CG2	VAL A	48145.641	10.906	-5.876	1.00	0.00 C
ATOM	670	H	VAL A	48147.199	9.723	-7.590	1.00	0.00 H
ATOM	671	HA	VAL A	48148.082	9.889	-4.906	1.00	0.00 H
ATOM	672	HB	VAL A	48145.428	8.793	-5.841	1.00	0.00 H
ATOM	673	1HG1	VAL A	48144.658	9.798	-3.679	1.00	0.00 H
ATOM	674	2HG1	VAL A	48146.354	10.065	-3.274	1.00	0.00 H
ATOM	675	3HG1	VAL A	48145.752	8.425	-3.511	1.00	0.00 H

ATOM	676	1HG2 VAL A	48144.683	11.210	-5.480	1.00	0.00	H
ATOM	677	2HG2 VAL A	48145.584	10.851	-6.953	1.00	0.00	H
ATOM	678	3HG2 VAL A	48146.393	11.625	-5.590	1.00	0.00	H
ATOM	679	N LEU A	49148.894	7.572	-4.483	1.00	0.00	N
ATOM	680	CA LEU A	49149.282	6.227	-4.076	1.00	0.00	C
ATOM	681	C LEU A	49149.109	6.044	-2.574	1.00	0.00	C
ATOM	682	O LEU A	49149.761	6.719	-1.778	1.00	0.00	O
ATOM	683	CB LEU A	49150.735	5.952	-4.470	1.00	0.00	C
ATOM	684	CG LEU A	49151.015	5.988	-5.973	1.00	0.00	C
ATOM	685	CD1 LEU A	49152.444	6.438	-6.238	1.00	0.00	C
ATOM	686	CD2 LEU A	49150.760	4.623	-6.594	1.00	0.00	C
ATOM	687	H LEU A	49149.464	8.329	-4.238	1.00	0.00	H
ATOM	688	HA LEU A	49148.641	5.527	-4.589	1.00	0.00	H
ATOM	689	1HB LEU A	49151.362	6.690	-3.990	1.00	0.00	H
ATOM	690	2HB LEU A	49151.008	4.977	-4.099	1.00	0.00	H
ATOM	691	HG LEU A	49150.350	6.699	-6.441	1.00	0.00	H
ATOM	692	1HD1 LEU A	49152.819	5.943	-7.122	1.00	0.00	H
ATOM	693	2HD1 LEU A	49153.065	6.181	-5.392	1.00	0.00	H
ATOM	694	3HD1 LEU A	49152.463	7.507	-6.388	1.00	0.00	H
ATOM	695	1HD2 LEU A	49150.851	4.693	-7.667	1.00	0.00	H
ATOM	696	2HD2 LEU A	49149.765	4.292	-6.337	1.00	0.00	H
ATOM	697	3HD2 LEU A	49151.484	3.915	-6.217	1.00	0.00	H
ATOM	698	N ALA A	50148.226	5.129	-2.194	1.00	0.00	N
ATOM	699	CA ALA A	50147.969	4.861	-0.786	1.00	0.00	C
ATOM	700	C ALA A	50148.858	3.732	-0.273	1.00	0.00	C
ATOM	701	O ALA A	50148.738	2.588	-0.710	1.00	0.00	O
ATOM	702	CB ALA A	50146.502	4.520	-0.573	1.00	0.00	C

ATOM	703	H	ALA A	50147.735	4.623	-2.875	1.00	0.00	H
ATOM	704	HA	ALA A	50148.190	5.762	-0.233	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.135	3.962	-1.421	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.933	5.431	-0.467	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.398	3.923	0.322	1.00	0.00	H
ATOM	708	N	GLY A	51149.748	4.062	0.655	1.00	0.00	N
ATOM	709	CA	GLY A	51150.644	3.065	1.212	1.00	0.00	C
ATOM	710	C	GLY A	51149.919	2.054	2.078	1.00	0.00	C
ATOM	711	O	GLY A	51149.415	2.391	3.149	1.00	0.00	O
ATOM	712	H	GLY A	51149.798	4.991	0.966	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.132	2.543	0.402	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.393	3.562	1.810	1.00	0.00	H
ATOM	715	N	LEU A	52149.865	0.809	1.614	1.00	0.00	N
ATOM	716	CA	LEU A	52149.195	-0.253	2.354	1.00	0.00	C
ATOM	717	C	LEU A	52150.209	-1.163	3.039	1.00	0.00	C
ATOM	718	O	LEU A	52151.303	-1.390	2.523	1.00	0.00	O
ATOM	719	CB	LEU A	52148.306	-1.073	1.417	1.00	0.00	C
ATOM	720	CG	LEU A	52147.107	-0.322	0.839	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.618	-0.994	-0.434	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.986	-0.238	1.865	1.00	0.00	C
ATOM	723	H	LEU A	52150.286	0.601	0.753	1.00	0.00	H
ATOM	724	HA	LEU A	52148.576	0.209	3.110	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.914	-1.427	0.597	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.937	-1.928	1.963	1.00	0.00	H
ATOM	727	HG	LEU A	52147.408	0.686	0.589	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.424	-1.565	-0.872	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.287	-0.242	-1.134	1.00	0.00	H

ATOM	730	3HD1	LEU A	52145.796	-1.654	-0.199	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.033	-0.274	1.359	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.068	0.689	2.413	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.063	-1.069	2.549	1.00	0.00	H
ATOM	734	N	GLU A	53149.838	-1.681	4.206	1.00	0.00	N
ATOM	735	CA	GLU A	53150.714	-2.566	4.963	1.00	0.00	C
ATOM	736	C	GLU A	53150.143	-3.980	5.022	1.00	0.00	C
ATOM	737	O	GLU A	53149.157	-4.233	5.713	1.00	0.00	O
ATOM	738	CB	GLU A	53150.916	-2.028	6.381	1.00	0.00	C
ATOM	739	CG	GLU A	53151.852	-2.875	7.226	1.00	0.00	C
ATOM	740	CD	GLU A	53151.363	-3.037	8.653	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.301	-2.022	9.377	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.042	-4.179	9.044	1.00	0.00	O
ATOM	743	H	GLU A	53148.952	-1.463	4.565	1.00	0.00	H
ATOM	744	HA	GLU A	53151.669	-2.597	4.460	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.326	-1.030	6.319	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.958	-1.984	6.876	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.934	-3.854	6.777	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.824	-2.406	7.245	1.00	0.00	H
ATOM	749	N	LEU A	54150.769	-4.896	4.290	1.00	0.00	N
ATOM	750	CA	LEU A	54150.323	-6.284	4.257	1.00	0.00	C
ATOM	751	C	LEU A	54150.508	-6.947	5.619	1.00	0.00	C
ATOM	752	O	LEU A	54151.536	-6.770	6.272	1.00	0.00	O
ATOM	753	CB	LEU A	54151.092	-7.064	3.189	1.00	0.00	C
ATOM	754	CG	LEU A	54151.112	-6.416	1.804	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.283	-6.938	0.987	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.799	-6.672	1.079	1.00	0.00	C

ATOM	757	H	LEU A	54151.550	-4.633	3.759	1.00	0.00	H
ATOM	758	HA	LEU A	54149.273	-6.289	4.009	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.113	-7.182	3.524	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.646	-8.043	3.097	1.00	0.00	H
ATOM	761	HG	LEU A	54151.232	-5.348	1.914	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.188	-6.878	1.575	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.394	-6.342	0.094	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.101	-7.967	0.713	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.009	-6.810	1.802	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.890	-7.559	0.471	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.565	-5.826	0.449	1.00	0.00	H
ATOM	768	N	GLU A	55149.506	-7.711	6.039	1.00	0.00	N
ATOM	769	CA	GLU A	55149.557	-8.401	7.323	1.00	0.00	C
ATOM	770	C	GLU A	55150.544	-9.563	7.278	1.00	0.00	C
ATOM	771	O	GLU A	55151.175	-9.894	8.280	1.00	0.00	O
ATOM	772	CB	GLU A	55148.167	-8.912	7.708	1.00	0.00	C
ATOM	773	CG	GLU A	55147.280	-7.850	8.338	1.00	0.00	C
ATOM	774	CD	GLU A	55147.327	-7.878	9.853	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.247	-7.930	10.479	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.442	-7.847	10.414	1.00	0.00	O
ATOM	777	H	GLU A	55148.712	-7.813	5.474	1.00	0.00	H
ATOM	778	HA	GLU A	55149.888	-7.692	8.067	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.674	-9.281	6.821	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.277	-9.724	8.411	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.610	-6.879	8.001	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.261	-8.015	8.020	1.00	0.00	H
ATOM	783	N	ASPA	56150.671	-10.178	6.107	1.00	0.00	N

ATOM	784	CA	ASP A	56151.582 -11.303	5.929	1.00	0.00 C
ATOM	785	C	ASP A	56152.945 -10.828	5.438	1.00	0.00 C
ATOM	786	O	ASP A	56153.040 -10.080	4.466	1.00	0.00 O
ATOM	787	CB	ASP A	56150.994 -12.311	4.939	1.00	0.00 C
ATOM	788	CG	ASP A	56151.316 -13.745	5.313	1.00	0.00 C
ATOM	789	OD1	ASP A	56151.513 -14.568	4.395	1.00	0.00 O
ATOM	790	OD2	ASP A	56151.373 -14.044	6.525	1.00	0.00 O
ATOM	791	H	ASP A	56150.141 -9.868	5.343	1.00	0.00 H
ATOM	792	HA	ASP A	56151.705 -11.785	6.888	1.00	0.00 H
ATOM	793	1HB	ASP A	56149.920 -12.198	4.916	1.00	0.00 H
ATOM	794	2HB	ASP A	56151.394 -12.116	3.955	1.00	0.00 H
ATOM	795	N	GLU A	57154.000 -11.268	6.118	1.00	0.00 N
ATOM	796	CA	GLU A	57155.359 -10.889	5.751	1.00	0.00 C
ATOM	797	C	GLU A	57155.757 -11.512	4.417	1.00	0.00 C
ATOM	798	O	GLU A	57156.062 -12.703	4.343	1.00	0.00 O
ATOM	799	CB	GLU A	57156.343 -11.318	6.842	1.00	0.00 C
ATOM	800	CG	GLU A	57156.235 -10.496	8.115	1.00	0.00 C
ATOM	801	CD	GLU A	57156.350 -11.343	9.367	1.00	0.00 C
ATOM	802	OE1	GLU A	57157.448 -11.381	9.961	1.00	0.00 O
ATOM	803	OE2	GLU A	57155.340 -11.968	9.755	1.00	0.00 O
ATOM	804	H	GLU A	57153.860 -11.863	6.884	1.00	0.00 H
ATOM	805	HA	GLU A	57155.388 -9.814	5.656	1.00	0.00 H
ATOM	806	1HB	GLU A	57156.157 -12.353	7.091	1.00	0.00 H
ATOM	807	2HB	GLU A	57157.349 -11.223	6.460	1.00	0.00 H
ATOM	808	1HG	GLU A	57157.027 -9.762	8.123	1.00	0.00 H
ATOM	809	2HG	GLU A	57155.281 -9.991	8.124	1.00	0.00 H
ATOM	810	N	CYS A	58155.754 -10.699	3.366	1.00	0.00 N

ATOM	811	CA	CYS A	58156.115	-11.172	2.034	1.00	0.00	C
ATOM	812	C	CYS A	58157.485	-10.640	1.622	1.00	0.00	C
ATOM	813	O	CYS A	58157.775	-9.454	1.782	1.00	0.00	O
ATOM	814	CB	CYS A	58155.060	-10.741	1.013	1.00	0.00	C
ATOM	815	SG	CYS A	58153.723	-11.936	0.785	1.00	0.00	S
ATOM	816	H	CYS A	58155.501	-9.760	3.488	1.00	0.00	H
ATOM	817	HA	CYS A	58156.155	-12.250	2.065	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.616	-9.811	1.335	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.537	-10.592	0.055	1.00	0.00	H
ATOM	820	HG	CYS A	58152.891	-11.484	0.940	1.00	0.00	H
ATOM	821	N	ALA A	59158.322	-11.525	1.092	1.00	0.00	N
ATOM	822	CA	ALA A	59159.660	-11.145	0.658	1.00	0.00	C
ATOM	823	C	ALA A	59159.602	-10.239	-0.568	1.00	0.00	C
ATOM	824	O	ALA A	59158.858	-10.503	-1.512	1.00	0.00	O
ATOM	825	CB	ALA A	59160.490	-12.385	0.361	1.00	0.00	C
ATOM	826	H	ALA A	59158.033	-12.456	0.991	1.00	0.00	H
ATOM	827	HA	ALA A	59160.134	-10.608	1.468	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.078	-13.229	0.894	1.00	0.00	H
ATOM	829	2HB	ALA A	59161.509	-12.221	0.679	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.473	-12.585	-0.700	1.00	0.00	H
ATOM	831	N	GLY A	60160.393	-9.171	-0.546	1.00	0.00	N
ATOM	832	CA	GLY A	60160.417	-8.243	-1.660	1.00	0.00	C
ATOM	833	C	GLY A	60159.619	-6.984	-1.385	1.00	0.00	C
ATOM	834	O	GLY A	60159.093	-6.359	-2.306	1.00	0.00	O
ATOM	835	H	GLY A	60160.966	-9.012	0.234	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.441	-7.970	-1.866	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.005	-8.733	-2.531	1.00	0.00	H

ATOM	838	N	CYS A	61159.528	-6.611	-0.113	1.00	0.00	N
ATOM	839	CA	CYS A	61158.788	-5.417	0.283	1.00	0.00	C
ATOM	840	C	CYS A	61159.610	-4.561	1.242	1.00	0.00	C
ATOM	841	O	CYS A	61160.560	-5.040	1.859	1.00	0.00	O
ATOM	842	CB	CYS A	61157.462	-5.808	0.938	1.00	0.00	C
ATOM	843	SG	CYS A	61156.438	-6.906	-0.068	1.00	0.00	S
ATOM	844	H	CYS A	61159.969	-7.150	0.577	1.00	0.00	H
ATOM	845	HA	CYS A	61158.584	-4.843	-0.609	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.665	-6.311	1.871	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.890	-4.912	1.135	1.00	0.00	H
ATOM	848	HG	CYS A	61156.146	-7.632	0.488	1.00	0.00	H
ATOM	849	N	THR A	62159.235	-3.291	1.361	1.00	0.00	N
ATOM	850	CA	THR A	62159.937	-2.367	2.245	1.00	0.00	C
ATOM	851	C	THR A	62159.224	-2.251	3.587	1.00	0.00	C
ATOM	852	O	THR A	62158.216	-2.917	3.826	1.00	0.00	O
ATOM	853	CB	THR A	62160.047	-0.989	1.592	1.00	0.00	C
ATOM	854	OG1	THR A	62158.778	-0.363	1.524	1.00	0.00	O
ATOM	855	CG2	THR A	62160.612	-1.034	0.188	1.00	0.00	C
ATOM	856	H	THR A	62158.469	-2.968	0.842	1.00	0.00	H
ATOM	857	HA	THR A	62160.930	-2.758	2.410	1.00	0.00	H
ATOM	858	HB	THR A	62160.699	-0.370	2.190	1.00	0.00	H
ATOM	859	HG1	THR A	62158.171	-0.923	1.034	1.00	0.00	H
ATOM	860	1HG2	THR A	62159.845	-1.363	-0.498	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.442	-1.725	0.157	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.951	-0.050	-0.096	1.00	0.00	H
ATOM	863	N	ASP A	63159.753	-1.402	4.462	1.00	0.00	N
ATOM	864	CA	ASP A	63159.167	-1.198	5.781	1.00	0.00	C

ATOM	865	C	ASP A	63158.493	0.167	5.873	1.00	0.00 C
ATOM	866	O	ASP A	63158.496	0.803	6.927	1.00	0.00 O
ATOM	867	CB	ASP A	63160.241	-1.323	6.864	1.00	0.00 C
ATOM	868	CG	ASP A	63161.339	-0.290	6.711	1.00	0.00 C
ATOM	869	OD1	ASP A	63162.512	-0.688	6.554	1.00	0.00 O
ATOM	870	OD2	ASP A	63161.027	0.919	6.749	1.00	0.00 O
ATOM	871	H	ASP A	63160.558	-0.900	4.213	1.00	0.00 H
ATOM	872	HA	ASP A	63158.423	-1.965	5.936	1.00	0.00 H
ATOM	873	1HB	ASP A	63159.783	-1.193	7.834	1.00	0.00 H
ATOM	874	2HB	ASP A	63160.685	-2.306	6.809	1.00	0.00 H
ATOM	875	N	GLY A	64157.917	0.612	4.760	1.00	0.00 N
ATOM	876	CA	GLY A	64157.247	1.899	4.736	1.00	0.00 C
ATOM	877	C	GLY A	64158.022	2.941	3.954	1.00	0.00 C
ATOM	878	O	GLY A	64158.203	4.066	4.417	1.00	0.00 O
ATOM	879	H	GLY A	64157.947	0.062	3.950	1.00	0.00 H
ATOM	880	1HA	GLY A	64156.273	1.777	4.285	1.00	0.00 H
ATOM	881	2HA	GLY A	64157.121	2.246	5.751	1.00	0.00 H
ATOM	882	N	THR A	65158.480	2.565	2.764	1.00	0.00 N
ATOM	883	CA	THR A	65159.241	3.474	1.916	1.00	0.00 C
ATOM	884	C	THR A	65158.867	3.291	0.448	1.00	0.00 C
ATOM	885	O	THR A	65158.792	2.167	-0.048	1.00	0.00 O
ATOM	886	CB	THR A	65160.741	3.246	2.104	1.00	0.00 C
ATOM	887	OG1	THR A	65161.030	1.862	2.200	1.00	0.00 O
ATOM	888	CG2	THR A	65161.299	3.918	3.340	1.00	0.00 C
ATOM	889	H	THR A	65158.303	1.654	2.450	1.00	0.00 H
ATOM	890	HA	THR A	65159.000	4.484	2.213	1.00	0.00 H
ATOM	891	HB	THR A	65161.266	3.643	1.247	1.00	0.00 H

ATOM	892	HG1 THR A	65160.966	1.461	1.330	1.00	0.00	H
ATOM	893	1HG2 THR A	65161.938	3.227	3.868	1.00	0.00	H
ATOM	894	2HG2 THR A	65160.486	4.219	3.984	1.00	0.00	H
ATOM	895	3HG2 THR A	65161.870	4.787	3.050	1.00	0.00	H
ATOM	896	N PHE A	66158.633	4.403	-0.240	1.00	0.00	N
ATOM	897	CA PHE A	66158.267	4.366	-1.653	1.00	0.00	C
ATOM	898	C PHE A	66159.287	5.119	-2.500	1.00	0.00	C
ATOM	899	O PHE A	66159.399	6.342	-2.414	1.00	0.00	O
ATOM	900	CB PHE A	66156.875	4.968	-1.856	1.00	0.00	C
ATOM	901	CG PHE A	66156.271	4.642	-3.191	1.00	0.00	C
ATOM	902	CD1 PHE A	66155.997	3.330	-3.541	1.00	0.00	C
ATOM	903	CD2 PHE A	66155.975	5.648	-4.097	1.00	0.00	C
ATOM	904	CE1 PHE A	66155.440	3.026	-4.769	1.00	0.00	C
ATOM	905	CE2 PHE A	66155.418	5.351	-5.327	1.00	0.00	C
ATOM	906	CZ PHE A	66155.151	4.039	-5.663	1.00	0.00	C
ATOM	907	H PHE A	66158.709	5.270	0.210	1.00	0.00	H
ATOM	908	HA PHE A	66158.251	3.332	-1.963	1.00	0.00	H
ATOM	909	1HB PHE A	66156.212	4.592	-1.091	1.00	0.00	H
ATOM	910	2HB PHE A	66156.941	6.043	-1.772	1.00	0.00	H
ATOM	911	HD1 PHE A	66156.222	2.537	-2.842	1.00	0.00	H
ATOM	912	HD2 PHE A	66156.184	6.675	-3.835	1.00	0.00	H
ATOM	913	HE1 PHE A	66155.233	1.999	-5.030	1.00	0.00	H
ATOM	914	HE2 PHE A	66155.193	6.145	-6.024	1.00	0.00	H
ATOM	915	HZ PHE A	66154.716	3.805	-6.623	1.00	0.00	H
ATOM	916	N ARG A	67160.032	4.379	-3.316	1.00	0.00	N
ATOM	917	CA ARG A	67161.043	4.978	-4.179	1.00	0.00	C
ATOM	918	C ARG A	67162.102	5.702	-3.354	1.00	0.00	C

ATOM	919	O	ARG A	67162.609	6.749	-3.756	1.00	0.00	O
ATOM	920	CB	ARG A	67160.393	5.952	-5.163	1.00	0.00	C
ATOM	921	CG	ARG A	67159.132	5.407	-5.815	1.00	0.00	C
ATOM	922	CD	ARG A	67158.486	6.437	-6.728	1.00	0.00	C
ATOM	923	NE	ARG A	67158.779	6.181	-8.135	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.174	5.243	-8.860	1.00	0.00	C
ATOM	925	NH1	ARG A	67157.244	4.470	-8.314	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.498	5.078	-10.136	1.00	0.00	N
ATOM	927	H	ARG A	67159.898	3.410	-3.339	1.00	0.00	H
ATOM	928	HA	ARG A	67161.519	4.183	-4.733	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.137	6.861	-4.637	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.103	6.186	-5.943	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.388	4.535	-6.398	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.429	5.133	-5.042	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.417	6.408	-6.581	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.858	7.417	-6.464	1.00	0.00	H
ATOM	935	HE	ARG A	67159.463	6.738	-8.565	1.00	0.00	H
ATOM	936	1HH1	ARG A	67156.994	4.589	-7.353	1.00	0.00	H
ATOM	937	2HH1	ARG A	67156.792	3.767	-8.863	1.00	0.00	H
ATOM	938	1HH2	ARG A	67159.198	5.658	-10.552	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.043	4.373	-10.680	1.00	0.00	H
ATOM	940	N	GLY A	68162.431	5.138	-2.196	1.00	0.00	N
ATOM	941	CA	GLY A	68163.427	5.744	-1.332	1.00	0.00	C
ATOM	942	C	GLY A	68162.901	6.969	-0.610	1.00	0.00	C
ATOM	943	O	GLY A	68163.664	7.874	-0.273	1.00	0.00	O
ATOM	944	H	GLY A	68161.993	4.304	-1.926	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.742	5.015	-0.600	1.00	0.00	H

ATOM	946	2HA	GLY A	68164.279	6.031	-1.930	1.00	0.00	H
ATOM	947	N	THR A	69161.594	6.997	-0.372	1.00	0.00	N
ATOM	948	CA	THR A	69160.967	8.120	0.314	1.00	0.00	C
ATOM	949	C	THR A	69160.042	7.631	1.425	1.00	0.00	C
ATOM	950	O	THR A	69158.874	7.326	1.184	1.00	0.00	O
ATOM	951	CB	THR A	69160.181	8.977	-0.679	1.00	0.00	C
ATOM	952	OG1	THR A	69160.884	9.098	-1.903	1.00	0.00	O
ATOM	953	CG2	THR A	69159.900	10.375	-0.172	1.00	0.00	C
ATOM	954	H	THR A	69161.038	6.245	-0.665	1.00	0.00	H
ATOM	955	HA	THR A	69161.750	8.720	0.753	1.00	0.00	H
ATOM	956	HB	THR A	69159.232	8.501	-0.878	1.00	0.00	H
ATOM	957	HG1	THR A	69160.321	9.520	-2.555	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.475	11.088	-0.744	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.176	10.443	0.870	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.847	10.592	-0.280	1.00	0.00	H
ATOM	961	N	ARG A	70160.572	7.560	2.642	1.00	0.00	N
ATOM	962	CA	ARG A	70159.794	7.109	3.789	1.00	0.00	C
ATOM	963	C	ARG A	70158.637	8.062	4.070	1.00	0.00	C
ATOM	964	O	ARG A	70158.834	9.269	4.210	1.00	0.00	O
ATOM	965	CB	ARG A	70160.687	6.996	5.025	1.00	0.00	C
ATOM	966	CG	ARG A	70160.042	6.239	6.174	1.00	0.00	C
ATOM	967	CD	ARG A	70160.682	6.596	7.506	1.00	0.00	C
ATOM	968	NE	ARG A	70162.111	6.294	7.526	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.828	6.174	8.641	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.255	6.332	9.827	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.123	5.897	8.569	1.00	0.00	N
ATOM	972	H	ARG A	70161.509	7.818	2.771	1.00	0.00	H

ATOM	973	HA	ARG A	70159.392	6.135	3.555	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.598	6.484	4.751	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.933	7.989	5.370	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.992	6.487	6.213	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.158	5.178	6.003	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.546	7.653	7.683	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.193	6.036	8.288	1.00	0.00	H
ATOM	980	HE	ARG A	70162.560	6.173	6.664	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.278	6.542	9.889	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.798	6.241	10.661	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.560	5.778	7.678	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.662	5.808	9.407	1.00	0.00	H
ATOM	985	N	TYR A	71157.430	7.513	4.150	1.00	0.00	N
ATOM	986	CA	TYR A	71156.240	8.315	4.414	1.00	0.00	C
ATOM	987	C	TYR A	71155.660	7.993	5.787	1.00	0.00	C
ATOM	988	O	TYR A	71155.224	8.886	6.513	1.00	0.00	O
ATOM	989	CB	TYR A	71155.186	8.072	3.332	1.00	0.00	C
ATOM	990	CG	TYR A	71155.555	8.651	1.985	1.00	0.00	C
ATOM	991	CD1	TYR A	71156.007	9.960	1.871	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.453	7.889	0.828	1.00	0.00	C
ATOM	993	CE1	TYR A	71156.346	10.493	0.642	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.791	8.415	-0.405	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.235	9.717	-0.493	1.00	0.00	C
ATOM	996	OH	TYR A	71156.572	10.245	-1.718	1.00	0.00	O
ATOM	997	H	TYR A	71157.335	6.544	4.029	1.00	0.00	H
ATOM	998	HA	TYR A	71156.530	9.355	4.394	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.047	7.008	3.208	1.00	0.00	H

ATOM	1000	2HB	TYR A	71154.253	8.519	3.642	1.00	0.00	H
ATOM	1001	HD1	TYR A	71156.092	10.566	2.762	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.104	6.870	0.900	1.00	0.00	H
ATOM	1003	HE1	TYR A	71156.694	11.513	0.573	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.704	7.806	-1.293	1.00	0.00	H
ATOM	1005	HH	TYR A	71157.133	9.625	-2.190	1.00	0.00	H
ATOM	1006	N	PHE A	72155.657	6.711	6.136	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.130	6.271	7.423	1.00	0.00	C
ATOM	1008	C	PHE A	72156.016	5.188	8.030	1.00	0.00	C
ATOM	1009	O	PHE A	72156.906	4.655	7.369	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.703	5.747	7.261	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.559	4.720	6.175	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.366	5.106	4.858	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.619	3.367	6.470	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.233	4.163	3.857	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.489	2.419	5.474	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.295	2.818	4.165	1.00	0.00	C
ATOM	1017	H	PHE A	72156.018	6.045	5.515	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.119	7.124	8.086	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.384	5.295	8.189	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.048	6.574	7.026	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.317	6.158	4.616	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.772	3.055	7.493	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.081	4.477	2.835	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.537	1.368	5.718	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.192	2.079	3.384	1.00	0.00	H
ATOM	1026	N	THR A	73155.765	4.867	9.297	1.00	0.00	N

ATOM	1027	CA	THR A	73156.539	3.847	9.993	1.00	0.00 C
ATOM	1028	C	THR A	73155.724	2.569	10.166	1.00	0.00 C
ATOM	1029	O	THR A	73154.725	2.549	10.884	1.00	0.00 O
ATOM	1030	CB	THR A	73156.992	4.366	11.359	1.00	0.00 C
ATOM	1031	OG1	THR A	73157.826	3.420	12.004	1.00	0.00 O
ATOM	1032	CG2	THR A	73155.842	4.675	12.294	1.00	0.00 C
ATOM	1033	H	THR A	73155.041	5.326	9.772	1.00	0.00 H
ATOM	1034	HA	THR A	73157.411	3.626	9.396	1.00	0.00 H
ATOM	1035	HB	THR A	73157.557	5.276	11.217	1.00	0.00 H
ATOM	1036	HG1	THR A	73157.355	2.588	12.098	1.00	0.00 H
ATOM	1037	1HG2	THR A	73155.091	5.244	11.765	1.00	0.00 H
ATOM	1038	2HG2	THR A	73156.205	5.252	13.132	1.00	0.00 H
ATOM	1039	3HG2	THR A	73155.410	3.753	12.652	1.00	0.00 H
ATOM	1040	N	CYS A	74156.160	1.502	9.503	1.00	0.00 N
ATOM	1041	CA	CYS A	74155.471	0.220	9.582	1.00	0.00 C
ATOM	1042	C	CYS A	74156.459	-0.914	9.839	1.00	0.00 C
ATOM	1043	O	CYS A	74157.656	-0.682	10.009	1.00	0.00 O
ATOM	1044	CB	CYS A	74154.696	-0.048	8.291	1.00	0.00 C
ATOM	1045	SG	CYS A	74153.000	0.580	8.306	1.00	0.00 S
ATOM	1046	H	CYS A	74156.963	1.579	8.947	1.00	0.00 H
ATOM	1047	HA	CYS A	74154.775	0.267	10.407	1.00	0.00 H
ATOM	1048	1HB	CYS A	74155.211	0.421	7.467	1.00	0.00 H
ATOM	1049	2HB	CYS A	74154.651	-1.114	8.121	1.00	0.00 H
ATOM	1050	HG	CYS A	74152.701	0.649	7.397	1.00	0.00 H
ATOM	1051	N	ALAA	75155.949	-2.142	9.866	1.00	0.00 N
ATOM	1052	CA	ALAA	75156.786	-3.312	10.102	1.00	0.00 C
ATOM	1053	C	ALAA	75157.751	-3.540	8.943	1.00	0.00 C

ATOM	1054	O	ALA A	75157.777	-2.770	7.983	1.00	0.00	O
ATOM	1055	CB	ALA A	75155.921	-4.543	10.320	1.00	0.00	C
ATOM	1056	H	ALA A	75154.987	-2.262	9.724	1.00	0.00	H
ATOM	1057	HA	ALA A	75157.356	-3.137	11.003	1.00	0.00	H
ATOM	1058	1HB	ALA A	75156.535	-5.430	10.263	1.00	0.00	H
ATOM	1059	2HB	ALA A	75155.156	-4.585	9.559	1.00	0.00	H
ATOM	1060	3HB	ALA A	75155.457	-4.489	11.294	1.00	0.00	H
ATOM	1061	N	LEU A	76158.542	-4.603	9.039	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.509	-4.934	7.999	1.00	0.00	C
ATOM	1063	C	LEU A	76158.917	-5.923	7.001	1.00	0.00	C
ATOM	1064	O	LEU A	76158.274	-6.899	7.387	1.00	0.00	O
ATOM	1065	CB	LEU A	76160.779	-5.517	8.620	1.00	0.00	C
ATOM	1066	CG	LEU A	76161.763	-4.484	9.173	1.00	0.00	C
ATOM	1067	CD1	LEU A	76162.495	-5.038	10.385	1.00	0.00	C
ATOM	1068	CD2	LEU A	76162.752	-4.063	8.097	1.00	0.00	C
ATOM	1069	H	LEU A	76158.474	-5.180	9.829	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.759	-4.022	7.478	1.00	0.00	H
ATOM	1071	1HB	LEU A	76160.490	-6.176	9.426	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.289	-6.098	7.867	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.215	-3.607	9.487	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76161.972	-4.750	11.285	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.500	-4.644	10.410	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76162.533	-6.115	10.320	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.670	-3.735	8.561	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.332	-3.253	7.518	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.957	-4.902	7.447	1.00	0.00	H
ATOM	1080	N	LYS A	77159.139	-5.665	5.715	1.00	0.00	N

- 1098 -

ATOM	1081	CA	LYS A	77158.628	-6.533	4.662	1.00	0.00 C
ATOM	1082	C	LYS A	77157.104	-6.595	4.699	1.00	0.00 C
ATOM	1083	O	LYS A	77156.509	-7.649	4.473	1.00	0.00 O
ATOM	1084	CB	LYS A	77159.211	-7.940	4.804	1.00	0.00 C
ATOM	1085	CG	LYS A	77160.726	-7.987	4.684	1.00	0.00 C
ATOM	1086	CD	LYS A	77161.166	-8.174	3.241	1.00	0.00 C
ATOM	1087	CE	LYS A	77162.624	-7.792	3.048	1.00	0.00 C
ATOM	1088	NZ	LYS A	77163.308	-8.683	2.071	1.00	0.00 N
ATOM	1089	H	LYS A	77159.659	-4.871	5.470	1.00	0.00 H
ATOM	1090	HA	LYS A	77158.935	-6.120	3.713	1.00	0.00 H
ATOM	1091	1HB	LYS A	77158.936	-8.336	5.770	1.00	0.00 H
ATOM	1092	2HB	LYS A	77158.791	-8.571	4.035	1.00	0.00 H
ATOM	1093	1HG	LYS A	77161.135	-7.059	5.056	1.00	0.00 H
ATOM	1094	2HG	LYS A	77161.099	-8.810	5.275	1.00	0.00 H
ATOM	1095	1HD	LYS A	77161.037	-9.211	2.968	1.00	0.00 H
ATOM	1096	2HD	LYS A	77160.553	-7.553	2.604	1.00	0.00 H
ATOM	1097	1HE	LYS A	77162.671	-6.775	2.689	1.00	0.00 H
ATOM	1098	2HE	LYS A	77163.129	-7.860	4.001	1.00	0.00 H
ATOM	1099	1HZ	LYS A	77163.812	-9.443	2.572	1.00	0.00 H
ATOM	1100	2HZ	LYS A	77163.994	-8.140	1.510	1.00	0.00 H
ATOM	1101	3HZ	LYS A	77162.612	-9.110	1.427	1.00	0.00 H
ATOM	1102	N	LYS A	78156.477	-5.460	4.988	1.00	0.00 N
ATOM	1103	CA	LYS A	78155.023	-5.384	5.056	1.00	0.00 C
ATOM	1104	C	LYS A	78154.526	-4.015	4.601	1.00	0.00 C
ATOM	1105	O	LYS A	78153.613	-3.445	5.197	1.00	0.00 O
ATOM	1106	CB	LYS A	78154.543	-5.667	6.481	1.00	0.00 C
ATOM	1107	CG	LYS A	78154.990	-7.018	7.016	1.00	0.00 C

ATOM	1108	CD	LYS A	78154.535	-7.227	8.451	1.00	0.00 C
ATOM	1109	CE	LYS A	78153.296	-8.107	8.521	1.00	0.00 C
ATOM	1110	NZ	LYS A	78152.334	-7.632	9.553	1.00	0.00 N
ATOM	1111	H	LYS A	78157.006	-4.653	5.159	1.00	0.00 H
ATOM	1112	HA	LYS A	78154.621	-6.137	4.394	1.00	0.00 H
ATOM	1113	1HB	LYS A	78154.926	-4.899	7.137	1.00	0.00 H
ATOM	1114	2HB	LYS A	78153.464	-5.636	6.497	1.00	0.00 H
ATOM	1115	1HG	LYS A	78154.568	-7.797	6.398	1.00	0.00 H
ATOM	1116	2HG	LYS A	78156.067	-7.070	6.977	1.00	0.00 H
ATOM	1117	1HD	LYS A	78155.331	-7.699	9.006	1.00	0.00 H
ATOM	1118	2HD	LYS A	78154.307	-6.266	8.890	1.00	0.00 H
ATOM	1119	1HE	LYS A	78152.810	-8.100	7.557	1.00	0.00 H
ATOM	1120	2HE	LYS A	78153.601	-9.116	8.763	1.00	0.00 H
ATOM	1121	1HZ	LYS A	78151.426	-8.129	9.451	1.00	0.00 H
ATOM	1122	2HZ	LYS A	78152.170	-6.610	9.446	1.00	0.00 H
ATOM	1123	3HZ	LYS A	78152.712	-7.813	10.505	1.00	0.00 H
ATOM	1124	N	ALA A	79155.135	-3.493	3.540	1.00	0.00 N
ATOM	1125	CA	ALA A	79154.756	-2.191	3.006	1.00	0.00 C
ATOM	1126	C	ALA A	79154.589	-2.246	1.491	1.00	0.00 C
ATOM	1127	O	ALA A	79155.567	-2.379	0.754	1.00	0.00 O
ATOM	1128	CB	ALA A	79155.789	-1.143	3.387	1.00	0.00 C
ATOM	1129	H	ALA A	79155.856	-3.996	3.108	1.00	0.00 H
ATOM	1130	HA	ALA A	79153.812	-1.910	3.451	1.00	0.00 H
ATOM	1131	1HB	ALA A	79156.035	-1.243	4.434	1.00	0.00 H
ATOM	1132	2HB	ALA A	79155.387	-0.157	3.204	1.00	0.00 H
ATOM	1133	3HB	ALA A	79156.681	-1.284	2.793	1.00	0.00 H
ATOM	1134	N	LEU A	80153.346	-2.143	1.033	1.00	0.00 N

- 1100 -

ATOM	1135	CA	LEU A	80153.051	-2.181	-0.394	1.00	0.00	C
ATOM	1136	C	LEU A	80152.282	-0.935	-0.825	1.00	0.00	C
ATOM	1137	O	LEU A	80151.202	-0.652	-0.307	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.245	-3.435	-0.737	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.821	-3.553	-2.202	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.012	-3.915	-3.075	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.714	-4.585	-2.354	1.00	0.00	C
ATOM	1142	H	LEU A	80152.609	-2.038	1.670	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.990	-2.211	-0.927	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.842	-4.301	-0.485	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.355	-3.444	-0.127	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.439	-2.599	-2.536	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.565	-3.020	-3.319	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80152.664	-4.382	-3.984	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.654	-4.600	-2.542	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.996	-4.463	-1.556	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.137	-5.578	-2.307	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.221	-4.447	-3.305	1.00	0.00	H
ATOM	1153	N	PHE A	81152.846	-0.195	-1.772	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.214	1.019	-2.272	1.00	0.00	C
ATOM	1155	C	PHE A	81151.401	0.732	-3.530	1.00	0.00	C
ATOM	1156	O	PHE A	81151.843	-0.005	-4.411	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.272	2.086	-2.565	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.894	2.672	-1.330	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.971	2.051	-0.719	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.400	3.844	-0.780	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.545	2.588	0.417	1.00	0.00	C

ATOM	1162	CE2 PHE A	81153.970	4.386	0.357	1.00	0.00	C
ATOM	1163	CZ PHE A	81155.044	3.756	0.957	1.00	0.00	C
ATOM	1164	H PHE A	81153.710	-0.473	-2.146	1.00	0.00	H
ATOM	1165	HA PHE A	81151.550	1.387	-1.504	1.00	0.00	H
ATOM	1166	1HB PHE A	81154.061	1.647	-3.157	1.00	0.00	H
ATOM	1167	2HB PHE A	81152.815	2.891	-3.124	1.00	0.00	H
ATOM	1168	HD1 PHE A	81155.364	1.137	-1.140	1.00	0.00	H
ATOM	1169	HD2 PHE A	81152.560	4.337	-1.247	1.00	0.00	H
ATOM	1170	HE1 PHE A	81156.384	2.094	0.884	1.00	0.00	H
ATOM	1171	HE2 PHE A	81153.576	5.300	0.776	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.490	4.178	1.845	1.00	0.00	H
ATOM	1173	N VAL A	82150.212	1.320	-3.606	1.00	0.00	N
ATOM	1174	CA VAL A	82149.338	1.127	-4.758	1.00	0.00	C
ATOM	1175	C VAL A	82148.527	2.385	-5.048	1.00	0.00	C
ATOM	1176	O VAL A	82148.443	3.288	-4.216	1.00	0.00	O
ATOM	1177	CB VAL A	82148.372	-0.053	-4.539	1.00	0.00	C
ATOM	1178	CG1 VAL A	82149.117	-1.376	-4.623	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.657	0.082	-3.202	1.00	0.00	C
ATOM	1180	H VAL A	82149.915	1.897	-2.873	1.00	0.00	H
ATOM	1181	HA VAL A	82149.957	0.905	-5.613	1.00	0.00	H
ATOM	1182	HB VAL A	82147.629	-0.034	-5.323	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82149.441	-1.670	-3.635	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82149.978	-1.265	-5.266	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82148.462	-2.133	-5.027	1.00	0.00	H
ATOM	1186	1HG2 VAL A	82146.755	-0.511	-3.216	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82147.405	1.118	-3.032	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82148.306	-0.266	-2.412	1.00	0.00	H

ATOM	1189	N	LYS A	83147.929	2.438	-6.234	1.00	0.00	N
ATOM	1190	CA	LYS A	83147.125	3.585	-6.636	1.00	0.00	C
ATOM	1191	C	LYS A	83145.818	3.634	-5.853	1.00	0.00	C
ATOM	1192	O	LYS A	83145.041	2.678	-5.859	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.833	3.530	-8.136	1.00	0.00	C
ATOM	1194	CG	LYS A	83148.083	3.515	-8.999	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.742	3.365	-10.472	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.891	3.816	-11.360	1.00	0.00	C
ATOM	1197	NZ	LYS A	83149.817	2.695	-11.683	1.00	0.00	N
ATOM	1198	H	LYS A	83148.033	1.685	-6.855	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.690	4.479	-6.420	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.265	2.635	-8.347	1.00	0.00	H
ATOM	1201	2HB	LYS A	83146.243	4.391	-8.408	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.618	4.443	-8.858	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.709	2.688	-8.697	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.527	2.327	-10.679	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.871	3.965	-10.694	1.00	0.00	H
ATOM	1206	1HE	LYS A	83148.485	4.212	-12.279	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.442	4.590	-10.847	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83150.305	2.375	-10.823	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83150.527	3.006	-12.376	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.284	1.897	-12.084	1.00	0.00	H
ATOM	1211	N	LEU A	84145.581	4.755	-5.181	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.368	4.936	-4.393	1.00	0.00	C
ATOM	1213	C	LEU A	84143.126	4.784	-5.264	1.00	0.00	C
ATOM	1214	O	LEU A	84142.118	4.224	-4.833	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.376	6.313	-3.725	1.00	0.00	C

ATOM	1216	CG	LEU A	84143.102	6.670	-2.958	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.017	5.873	-1.666	1.00	0.00	C
ATOM	1218	CD2	LEU A	84143.056	8.163	-2.669	1.00	0.00	C
ATOM	1219	H	LEU A	84146.239	5.480	-5.218	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.353	4.174	-3.629	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.209	6.351	-3.039	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.530	7.059	-4.491	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.243	6.419	-3.562	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.508	6.458	-0.914	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.013	5.635	-1.323	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.469	4.959	-1.843	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.998	8.476	-2.244	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.259	8.370	-1.970	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.879	8.703	-3.588	1.00	0.00	H
ATOM	1230	N	LYS A	85143.207	5.285	-6.492	1.00	0.00	N
ATOM	1231	CA	LYS A	85142.089	5.204	-7.426	1.00	0.00	C
ATOM	1232	C	LYS A	85141.772	3.752	-7.773	1.00	0.00	C
ATOM	1233	O	LYS A	85140.646	3.427	-8.146	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.404	5.988	-8.701	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.788	5.703	-9.264	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.711	6.903	-9.121	1.00	0.00	C
ATOM	1237	CE	LYS A	85145.607	7.066	-10.338	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.828	7.053	-11.607	1.00	0.00	N
ATOM	1239	H	LYS A	85144.037	5.719	-6.778	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.226	5.644	-6.948	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.674	5.736	-9.454	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.337	7.044	-8.486	1.00	0.00	H

ATOM	1243	1HG	LYS A	85144.217	4.867	-8.732	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.694	5.455	-10.312	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.111	7.794	-9.006	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.328	6.767	-8.245	1.00	0.00	H
ATOM	1247	1HE	LYS A	85146.132	8.006	-10.259	1.00	0.00	H
ATOM	1248	2HE	LYS A	85146.320	6.255	-10.355	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85144.768	6.084	-11.980	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.288	7.658	-12.316	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.865	7.408	-11.439	1.00	0.00	H
ATOM	1252	N	SER A	86142.772	2.885	-7.647	1.00	0.00	N
ATOM	1253	CA	SER A	86142.596	1.468	-7.949	1.00	0.00	C
ATOM	1254	C	SER A	86142.484	0.649	-6.668	1.00	0.00	C
ATOM	1255	O	SER A	86142.895	-0.511	-6.624	1.00	0.00	O
ATOM	1256	CB	SER A	86143.763	0.957	-8.795	1.00	0.00	C
ATOM	1257	OG	SER A	86144.179	1.934	-9.734	1.00	0.00	O
ATOM	1258	H	SER A	86143.648	3.203	-7.345	1.00	0.00	H
ATOM	1259	HA	SER A	86141.681	1.362	-8.512	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.595	0.719	-8.151	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.456	0.069	-9.329	1.00	0.00	H
ATOM	1262	HG	SER A	86144.469	2.723	-9.270	1.00	0.00	H
ATOM	1263	N	CYS A	87141.926	1.258	-5.627	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.760	0.585	-4.346	1.00	0.00	C
ATOM	1265	C	CYS A	87140.295	0.232	-4.103	1.00	0.00	C
ATOM	1266	O	CYS A	87139.395	0.870	-4.648	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.277	1.469	-3.209	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.080	1.553	-3.104	1.00	0.00	S
ATOM	1269	H	CYS A	87141.619	2.184	-5.725	1.00	0.00	H

ATOM	1270	HA	CYS A	87142.338	-0.327	-4.372	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.911	2.474	-3.350	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.909	1.085	-2.269	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.430	0.680	-3.295	1.00	0.00	H
ATOM	1274	N	ARG A	88140.066	-0.789	-3.284	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.710	-1.227	-2.971	1.00	0.00	C
ATOM	1276	C	ARG A	88138.470	-1.220	-1.460	1.00	0.00	C
ATOM	1277	O	ARG A	88139.274	-1.758	-0.698	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.463	-2.628	-3.535	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.305	-2.694	-4.518	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.151	-3.520	-3.972	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.512	-4.323	-5.012	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.347	-4.946	-4.855	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.690	-4.862	-3.705	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.837	-5.656	-5.852	1.00	0.00	N
ATOM	1285	H	ARG A	88140.824	-1.258	-2.880	1.00	0.00	H
ATOM	1286	HA	ARG A	88138.025	-0.536	-3.438	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.357	-2.960	-4.043	1.00	0.00	H
ATOM	1288	2HB	ARG A	88138.253	-3.304	-2.718	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.955	-1.690	-4.713	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.652	-3.140	-5.439	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.529	-4.178	-3.203	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.418	-2.852	-3.544	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.977	-4.402	-5.871	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88134.068	-4.327	-2.949	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.814	-5.332	-3.594	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.327	-5.723	-6.721	1.00	0.00	H

ATOM	1297	2HH2	ARG A	88132.961	-6.125	-5.735	1.00	0.00	H
ATOM	1298	N	PRO A	89137.360	-0.611	-1.004	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.030	-0.544	0.424	1.00	0.00	C
ATOM	1300	C	PRO A	89137.016	-1.921	1.079	1.00	0.00	C
ATOM	1301	O	PRO A	89136.454	-2.872	0.536	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.626	0.067	0.440	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.525	0.825	-0.837	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.343	0.058	-1.837	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.713	0.100	0.957	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.888	-0.720	0.493	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.526	0.721	1.294	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.494	0.874	-1.154	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.926	1.819	-0.708	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.729	-0.666	-2.353	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.806	0.733	-2.543	1.00	0.00	H
ATOM	1312	N	ASP A	90137.639	-2.020	2.248	1.00	0.00	N
ATOM	1313	CA	ASP A	90137.699	-3.282	2.978	1.00	0.00	C
ATOM	1314	C	ASP A	90136.690	-3.296	4.122	1.00	0.00	C
ATOM	1315	O	ASP A	90136.787	-2.501	5.058	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.109	-3.515	3.522	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.388	-4.979	3.796	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.186	-5.270	4.711	1.00	0.00	O
ATOM	1319	OD2	ASP A	90138.808	-5.835	3.095	1.00	0.00	O
ATOM	1320	H	ASP A	90138.068	-1.226	2.630	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.453	-4.075	2.288	1.00	0.00	H
ATOM	1322	1HB	ASP A	90139.829	-3.158	2.802	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.227	-2.965	4.444	1.00	0.00	H

ATOM	1324	N	SER A	91135.722	-4.204	4.040	1.00	0.00 N
ATOM	1325	CA	SER A	91134.695	-4.321	5.069	1.00	0.00 C
ATOM	1326	C	SER A	91134.986	-5.499	5.995	1.00	0.00 C
ATOM	1327	O	SER A	91134.070	-6.102	6.555	1.00	0.00 O
ATOM	1328	CB	SER A	91133.319	-4.494	4.424	1.00	0.00 C
ATOM	1329	OG	SER A	91132.300	-3.944	5.240	1.00	0.00 O
ATOM	1330	H	SER A	91135.699	-4.809	3.270	1.00	0.00 H
ATOM	1331	HA	SER A	91134.701	-3.410	5.650	1.00	0.00 H
ATOM	1332	1HB	SER A	91133.306	-3.996	3.467	1.00	0.00 H
ATOM	1333	2HB	SER A	91133.122	-5.547	4.284	1.00	0.00 H
ATOM	1334	HG	SER A	91131.591	-4.584	5.341	1.00	0.00 H
ATOM	1335	N	ARG A	92136.266	-5.822	6.150	1.00	0.00 N
ATOM	1336	CA	ARG A	92136.676	-6.929	7.006	1.00	0.00 C
ATOM	1337	C	ARG A	92136.335	-6.649	8.466	1.00	0.00 C
ATOM	1338	O	ARG A	92136.092	-7.572	9.243	1.00	0.00 O
ATOM	1339	CB	ARG A	92138.178	-7.181	6.862	1.00	0.00 C
ATOM	1340	CG	ARG A	92138.528	-8.159	5.751	1.00	0.00 C
ATOM	1341	CD	ARG A	92138.929	-9.516	6.308	1.00	0.00 C
ATOM	1342	NE	ARG A	92137.861	-10.122	7.098	1.00	0.00 N
ATOM	1343	CZ	ARG A	92138.051	-11.115	7.965	1.00	0.00 C
ATOM	1344	NH1	ARG A	92139.265	-11.616	8.155	1.00	0.00 N
ATOM	1345	NH2	ARG A	92137.024	-11.608	8.643	1.00	0.00 N
ATOM	1346	H	ARG A	92136.950	-5.306	5.676	1.00	0.00 H
ATOM	1347	HA	ARG A	92136.141	-7.811	6.686	1.00	0.00 H
ATOM	1348	1HB	ARG A	92138.670	-6.242	6.653	1.00	0.00 H
ATOM	1349	2HB	ARG A	92138.556	-7.576	7.793	1.00	0.00 H
ATOM	1350	1HG	ARG A	92137.667	-8.285	5.111	1.00	0.00 H

ATOM	1351	2HG	ARG A	92139.350	-7.758	5.177	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.170	-10.172	5.484	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.801	-9.391	6.933	1.00	0.00	H
ATOM	1354	HE	ARG A	92136.953	-9.771	6.978	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92140.044	-11.248	7.647	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92139.401	-12.361	8.807	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92136.107	-11.235	8.503	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92137.166	-12.354	9.293	1.00	0.00	H
ATOM	1359	N	PHE A	93136.321	-5.372	8.834	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.011	-4.976	10.204	1.00	0.00	C
ATOM	1361	C	PHE A	93134.637	-4.319	10.290	1.00	0.00	C
ATOM	1362	O	PHE A	93134.390	-3.488	11.164	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.080	-4.018	10.732	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.416	-4.670	10.948	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.106	-5.235	9.888	1.00	0.00	C
ATOM	1366	CD2	PHE A	93138.982	-4.718	12.213	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.335	-5.836	10.084	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.211	-5.316	12.415	1.00	0.00	C
ATOM	1369	CZ	PHE A	93140.888	-5.877	11.348	1.00	0.00	C
ATOM	1370	H	PHE A	93136.524	-4.680	8.171	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.009	-5.868	10.812	1.00	0.00	H
ATOM	1372	1HB	PHE A	93137.215	-3.214	10.025	1.00	0.00	H
ATOM	1373	2HB	PHE A	93136.751	-3.609	11.677	1.00	0.00	H
ATOM	1374	HD1	PHE A	93138.673	-5.203	8.898	1.00	0.00	H
ATOM	1375	HD2	PHE A	93138.453	-4.280	13.047	1.00	0.00	H
ATOM	1376	HE1	PHE A	93140.861	-6.273	9.248	1.00	0.00	H
ATOM	1377	HE2	PHE A	93140.641	-5.348	13.405	1.00	0.00	H

ATOM	1378	HZ	PHE A	93141.848	-6.345	11.504	1.00	0.00	H
ATOM	1379	N	ALA A	94133.742	-4.697	9.381	1.00	0.00	N
ATOM	1380	CA	ALA A	94132.395	-4.141	9.363	1.00	0.00	C
ATOM	1381	C	ALA A	94131.409	-5.069	10.064	1.00	0.00	C
ATOM	1382	O	ALA A	94131.306	-6.249	9.730	1.00	0.00	O
ATOM	1383	CB	ALA A	94131.951	-3.881	7.933	1.00	0.00	C
ATOM	1384	H	ALA A	94133.994	-5.364	8.708	1.00	0.00	H
ATOM	1385	HA	ALA A	94132.417	-3.196	9.885	1.00	0.00	H
ATOM	1386	1HB	ALA A	94131.106	-3.209	7.934	1.00	0.00	H
ATOM	1387	2HB	ALA A	94131.667	-4.815	7.469	1.00	0.00	H
ATOM	1388	3HB	ALA A	94132.764	-3.437	7.379	1.00	0.00	H
ATOM	1389	N	SER A	95130.685	-4.528	11.039	1.00	0.00	N
ATOM	1390	CA	SER A	95129.707	-5.307	11.788	1.00	0.00	C
ATOM	1391	C	SER A	95128.398	-5.422	11.015	1.00	0.00	C
ATOM	1392	O	SER A	95127.808	-4.417	10.619	1.00	0.00	O
ATOM	1393	CB	SER A	95129.451	-4.667	13.154	1.00	0.00	C
ATOM	1394	OG	SER A	95130.650	-4.575	13.907	1.00	0.00	O
ATOM	1395	H	SER A	95130.813	-3.581	11.260	1.00	0.00	H
ATOM	1396	HA	SER A	95130.113	-6.296	11.934	1.00	0.00	H
ATOM	1397	1HB	SER A	95129.052	-3.674	13.016	1.00	0.00	H
ATOM	1398	2HB	SER A	95128.741	-5.267	13.702	1.00	0.00	H
ATOM	1399	HG	SER A	95131.282	-4.029	13.435	1.00	0.00	H
ATOM	1400	N	LEU A	96127.948	-6.655	10.802	1.00	0.00	N
ATOM	1401	CA	LEU A	96126.707	-6.902	10.076	1.00	0.00	C
ATOM	1402	C	LEU A	96126.785	-6.339	8.660	1.00	0.00	C
ATOM	1403	O	LEU A	96126.357	-5.214	8.405	1.00	0.00	O
ATOM	1404	CB	LEU A	96125.525	-6.280	10.820	1.00	0.00	C

- 1110 -

ATOM	1405	CG	LEU A	96124.921	-7.153	11.923	1.00	0.00	C
ATOM	1406	CD1	LEU A	96125.619	-6.895	13.249	1.00	0.00	C
ATOM	1407	CD2	LEU A	96123.427	-6.897	12.046	1.00	0.00	C
ATOM	1408	H	LEU A	96128.463	-7.417	11.142	1.00	0.00	H
ATOM	1409	HA	LEU A	96126.565	-7.971	10.020	1.00	0.00	H
ATOM	1410	1HB	LEU A	96125.854	-5.352	11.264	1.00	0.00	H
ATOM	1411	2HB	LEU A	96124.750	-6.062	10.101	1.00	0.00	H
ATOM	1412	HG	LEU A	96125.064	-8.194	11.668	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96125.088	-6.127	13.791	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96126.633	-6.572	13.066	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96125.631	-7.805	13.832	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96123.258	-6.072	12.722	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96122.940	-7.783	12.429	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96123.021	-6.656	11.075	1.00	0.00	H
ATOM	1419	N	GLN A	97127.334	-7.130	7.744	1.00	0.00	N
ATOM	1420	CA	GLN A	97127.467	-6.710	6.354	1.00	0.00	C
ATOM	1421	C	GLN A	97126.124	-6.784	5.630	1.00	0.00	C
ATOM	1422	O	GLN A	97125.307	-7.660	5.911	1.00	0.00	O
ATOM	1423	CB	GLN A	97128.497	-7.581	5.631	1.00	0.00	C
ATOM	1424	CG	GLN A	97129.932	-7.129	5.841	1.00	0.00	C
ATOM	1425	CD	GLN A	97130.938	-8.074	5.214	1.00	0.00	C
ATOM	1426	OE1	GLN A	97131.184	-8.028	4.009	1.00	0.00	O
ATOM	1427	NE2	GLN A	97131.527	-8.939	6.032	1.00	0.00	N
ATOM	1428	H	GLN A	97127.658	-8.016	8.008	1.00	0.00	H
ATOM	1429	HA	GLN A	97127.810	-5.686	6.350	1.00	0.00	H
ATOM	1430	1HB	GLN A	97128.405	-8.597	5.989	1.00	0.00	H
ATOM	1431	2HB	GLN A	97128.287	-7.563	4.572	1.00	0.00	H

ATOM	1432	1HG	GLN A	97130.057	-6.152	5.400	1.00	0.00	H
ATOM	1433	2HG	GLN A	97130.126	-7.072	6.902	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97131.282	-8.919	6.981	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97132.182	-9.563	5.653	1.00	0.00	H
ATOM	1436	N	PRO A	98125.878	-5.862	4.683	1.00	0.00	N
ATOM	1437	CA	PRO A	98124.626	-5.830	3.918	1.00	0.00	C
ATOM	1438	C	PRO A	98124.313	-7.172	3.265	1.00	0.00	C
ATOM	1439	O	PRO A	98125.174	-7.777	2.626	1.00	0.00	O
ATOM	1440	CB	PRO A	98124.884	-4.764	2.851	1.00	0.00	C
ATOM	1441	CG	PRO A	98125.933	-3.885	3.438	1.00	0.00	C
ATOM	1442	CD	PRO A	98126.798	-4.781	4.282	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.793	-5.531	4.537	1.00	0.00	H
ATOM	1444	1HB	PRO A	98125.226	-5.237	1.941	1.00	0.00	H
ATOM	1445	2HB	PRO A	98123.974	-4.216	2.659	1.00	0.00	H
ATOM	1446	1HG	PRO A	98126.518	-3.435	2.649	1.00	0.00	H
ATOM	1447	2HG	PRO A	98125.475	-3.122	4.049	1.00	0.00	H
ATOM	1448	1HD	PRO A	98127.620	-5.169	3.699	1.00	0.00	H
ATOM	1449	2HD	PRO A	98127.163	-4.246	5.145	1.00	0.00	H
ATOM	1450	N	SER A	99123.077	-7.631	3.429	1.00	0.00	N
ATOM	1451	CA	SER A	99122.651	-8.902	2.855	1.00	0.00	C
ATOM	1452	C	SER A	99121.170	-9.152	3.124	1.00	0.00	C
ATOM	1453	O	SER A	99120.759	-10.283	3.388	1.00	0.00	O
ATOM	1454	CB	SER A	99123.487	-10.049	3.424	1.00	0.00	C
ATOM	1455	OG	SER A	99123.019	-10.437	4.705	1.00	0.00	O
ATOM	1456	H	SER A	99122.436	-7.103	3.950	1.00	0.00	H
ATOM	1457	HA	SER A	99122.806	-8.851	1.787	1.00	0.00	H
ATOM	1458	1HB	SER A	99123.427	-10.900	2.761	1.00	0.00	H

ATOM	1459	2HB	SER A	99124.517	-9.733	3.511	1.00	0.00	H
ATOM	1460	HG	SER A	99123.492	-11.220	4.995	1.00	0.00	H
ATOM	1461	N	GLY A	100120.374	-8.090	3.056	1.00	0.00	N
ATOM	1462	CA	GLY A	100118.949	-8.215	3.296	1.00	0.00	C
ATOM	1463	C	GLY A	100118.516	-7.547	4.588	1.00	0.00	C
ATOM	1464	O	GLY A	100119.120	-6.561	5.011	1.00	0.00	O
ATOM	1465	H	GLY A	100120.758	-7.215	2.842	1.00	0.00	H
ATOM	1466	1HA	GLY A	100118.416	-7.763	2.474	1.00	0.00	H
ATOM	1467	2HA	GLY A	100118.693	-9.264	3.343	1.00	0.00	H
ATOM	1468	N	PRO A	101117.463	-8.065	5.244	1.00	0.00	N
ATOM	1469	CA	PRO A	101116.960	-7.501	6.501	1.00	0.00	C
ATOM	1470	C	PRO A	101117.930	-7.710	7.658	1.00	0.00	C
ATOM	1471	O	PRO A	101117.857	-8.711	8.369	1.00	0.00	O
ATOM	1472	CB	PRO A	101115.661	-8.273	6.745	1.00	0.00	C
ATOM	1473	CG	PRO A	101115.843	-9.561	6.019	1.00	0.00	C
ATOM	1474	CD	PRO A	101116.682	-9.241	4.813	1.00	0.00	C
ATOM	1475	HA	PRO A	101116.743	-6.447	6.400	1.00	0.00	H
ATOM	1476	1HB	PRO A	101115.528	-8.432	7.806	1.00	0.00	H
ATOM	1477	2HB	PRO A	101114.826	-7.713	6.352	1.00	0.00	H
ATOM	1478	1HG	PRO A	101116.352	-10.271	6.653	1.00	0.00	H
ATOM	1479	2HG	PRO A	101114.882	-9.949	5.714	1.00	0.00	H
ATOM	1480	1HD	PRO A	101117.333	-10.069	4.576	1.00	0.00	H
ATOM	1481	2HD	PRO A	101116.054	-8.997	3.970	1.00	0.00	H
ATOM	1482	N	SER A	102118.838	-6.757	7.841	1.00	0.00	N
ATOM	1483	CA	SER A	102119.823	-6.835	8.913	1.00	0.00	C
ATOM	1484	C	SER A	102119.217	-6.399	10.243	1.00	0.00	C
ATOM	1485	O	SER A	102119.222	-7.153	11.215	1.00	0.00	O

- 1113 -

ATOM	1486	CB	SER A 102121.038	-5.967	8.582	1.00	0.00	C
ATOM	1487	OG	SER A 102122.023	-6.710	7.886	1.00	0.00	O
ATOM	1488	H	SER A 102118.846	-5.982	7.241	1.00	0.00	H
ATOM	1489	HA	SER A 102120.141	-7.864	8.996	1.00	0.00	H
ATOM	1490	1HB	SER A 102120.728	-5.138	7.964	1.00	0.00	H
ATOM	1491	2HB	SER A 102121.469	-5.591	9.499	1.00	0.00	H
ATOM	1492	HG	SER A 102122.747	-6.129	7.638	1.00	0.00	H
ATOM	1493	N	SER A 103118.697	-5.177	10.278	1.00	0.00	N
ATOM	1494	CA	SER A 103118.087	-4.640	11.488	1.00	0.00	C
ATOM	1495	C	SER A 103116.565	-4.718	11.411	1.00	0.00	C
ATOM	1496	O	SER A 103116.003	-5.040	10.365	1.00	0.00	O
ATOM	1497	CB	SER A 103118.524	-3.190	11.705	1.00	0.00	C
ATOM	1498	OG	SER A 103118.738	-2.530	10.469	1.00	0.00	O
ATOM	1499	H	SER A 103118.724	-4.622	9.469	1.00	0.00	H
ATOM	1500	HA	SER A 103118.424	-5.237	12.322	1.00	0.00	H
ATOM	1501	1HB	SER A 103117.756	-2.662	12.251	1.00	0.00	H
ATOM	1502	2HB	SER A 103119.444	-3.175	12.271	1.00	0.00	H
ATOM	1503	HG	SER A 103117.894	-2.380	10.037	1.00	0.00	H
ATOM	1504	N	GLY A 104115.906	-4.421	12.526	1.00	0.00	N
ATOM	1505	CA	GLY A 104114.456	-4.464	12.563	1.00	0.00	C
ATOM	1506	C	GLY A 104113.868	-3.401	13.471	1.00	0.00	C
ATOM	1507	O	GLY A 104112.673	-3.076	13.307	1.00	0.00	O
ATOM	1508	OXT	GLY A 104114.602	-2.895	14.345	1.00	0.00	O
ATOM	1509	H	GLY A 104116.408	-4.171	13.329	1.00	0.00	H
ATOM	1510	1HA	GLY A 104114.077	-4.317	11.563	1.00	0.00	H
ATOM	1511	2HA	GLY A 104114.144	-5.435	12.916	1.00	0.00	H
TER	1512	GLY A 104						

ENDMDL

Three-Dimensional Structure Coordinate Table 20

ATOM 1	N	GLY A	1128.661	32.040	-7.283	1.00	0.00	N
ATOM 2	CA	GLY A	1128.278	31.541	-8.634	1.00	0.00	C
ATOM 3	C	GLY A	1128.677	30.095	-8.853	1.00	0.00	C
ATOM 4	O	GLY A	1129.352	29.771	-9.830	1.00	0.00	O
ATOM 5 1H		GLY A	1128.790	31.240	-6.631	1.00	0.00	H
ATOM 6 2H		GLY A	1127.917	32.661	-6.908	1.00	0.00	H
ATOM 7 3H		GLY A	1129.550	32.576	-7.339	1.00	0.00	H
ATOM 8 1HA		GLY A	1127.208	31.628	-8.748	1.00	0.00	H
ATOM 9 2HA		GLY A	1128.760	32.153	-9.381	1.00	0.00	H
ATOM10	N	SER A	2128.260	29.223	-7.941	1.00	0.00	N
ATOM11	CA	SER A	2128.578	27.804	-8.038	1.00	0.00	C
ATOM12	C	SER A	2127.444	27.036	-8.709	1.00	0.00	C
ATOM13	O	SER A	2126.367	26.872	-8.134	1.00	0.00	O
ATOM14	CB	SER A	2128.851	27.223	-6.648	1.00	0.00	C
ATOM15	OG	SER A	2129.404	25.922	-6.738	1.00	0.00	O
ATOM16	H	SER A	2127.726	29.543	-7.184	1.00	0.00	H
ATOM17	HA	SER A	2129.469	27.704	-8.640	1.00	0.00	H
ATOM18 1HB		SER A	2129.546	27.862	-6.125	1.00	0.00	H
ATOM19 2HB		SER A	2127.925	27.171	-6.096	1.00	0.00	H
ATOM20	HG	SER A	2128.747	25.319	-7.092	1.00	0.00	H
ATOM21	N	SER A	3127.692	26.569	-9.927	1.00	0.00	N
ATOM22	CA	SER A	3126.691	25.818	-10.677	1.00	0.00	C
ATOM23	C	SER A	3127.354	24.865	-11.666	1.00	0.00	C
ATOM24	O	SER A	3128.088	25.290	-12.557	1.00	0.00	O

- 1115 -

ATOM25	CB	SER A	3125.757	26.775	-11.421	1.00	0.00	C
ATOM26	OG	SER A	3124.425	26.291	-11.422	1.00	0.00	O
ATOM27	H	SER A	3128.569	26.732	-10.333	1.00	0.00	H
ATOM28	HA	SER A	3126.112	25.241	-9.972	1.00	0.00	H
ATOM29	1HB	SER A	3125.775	27.741	-10.938	1.00	0.00	H
ATOM30	2HB	SER A	3126.092	26.879	-12.443	1.00	0.00	H
ATOM31	HG	SER A	3124.425	25.355	-11.635	1.00	0.00	H
ATOM32	N	GLY A	4127.089	23.572	-11.501	1.00	0.00	N
ATOM33	CA	GLY A	4127.667	22.578	-12.387	1.00	0.00	C
ATOM34	C	GLY A	4128.856	21.870	-11.767	1.00	0.00	C
ATOM35	O	GLY A	4129.986	22.018	-12.232	1.00	0.00	O
ATOM36	H	GLY A	4126.496	23.292	-10.773	1.00	0.00	H
ATOM37	1HA	GLY A	4126.912	21.846	-12.629	1.00	0.00	H
ATOM38	2HA	GLY A	4127.987	23.065	-13.296	1.00	0.00	H
ATOM39	N	SER A	5128.601	21.102	-10.713	1.00	0.00	N
ATOM40	CA	SER A	5129.658	20.368	-10.028	1.00	0.00	C
ATOM41	C	SER A	5129.088	19.175	-9.268	1.00	0.00	C
ATOM42	O	SER A	5128.573	19.321	-8.159	1.00	0.00	O
ATOM43	CB	SER A	5130.405	21.292	-9.064	1.00	0.00	C
ATOM44	OG	SER A	5131.790	20.992	-9.042	1.00	0.00	O
ATOM45	H	SER A	5127.679	21.025	-10.389	1.00	0.00	H
ATOM46	HA	SER A	5130.349	20.006	-10.775	1.00	0.00	H
ATOM47	1HB	SER A	5130.277	22.316	-9.379	1.00	0.00	H
ATOM48	2HB	SER A	5130.007	21.167	-8.068	1.00	0.00	H
ATOM49	HG	SER A	5132.155	21.097	-9.923	1.00	0.00	H
ATOM50	N	SER A	6129.183	17.994	-9.872	1.00	0.00	N
ATOM51	CA	SER A	6128.676	16.776	-9.250	1.00	0.00	C

ATOM52	C	SER A	6129.453	15.555	-9.733	1.00	0.00	C
ATOM53	O	SER A	6130.044	15.570	-10.812	1.00	0.00	O
ATOM54	CB	SER A	6127.188	16.602	-9.560	1.00	0.00	C
ATOM55	OG	SER A	6126.446	17.739	-9.155	1.00	0.00	O
ATOM56	H	SER A	6129.605	17.942	-10.754	1.00	0.00	H
ATOM57	HA	SER A	6128.803	16.870	-8.183	1.00	0.00	H
ATOM58	1HB	SER A	6127.058	16.465	-10.624	1.00	0.00	H
ATOM59	2HB	SER A	6126.812	15.736	-9.037	1.00	0.00	H
ATOM60	HG	SER A	6126.383	18.358	-9.886	1.00	0.00	H
ATOM61	N	GLY A	7129.449	14.499	-8.923	1.00	0.00	N
ATOM62	CA	GLY A	7130.157	13.284	-9.285	1.00	0.00	C
ATOM63	C	GLY A	7129.219	12.168	-9.702	1.00	0.00	C
ATOM64	O	GLY A	7128.072	12.417	-10.073	1.00	0.00	O
ATOM65	H	GLY A	7128.959	14.546	-8.076	1.00	0.00	H
ATOM66	1HA	GLY A	7130.827	13.502	-10.102	1.00	0.00	H
ATOM67	2HA	GLY A	7130.737	12.954	-8.436	1.00	0.00	H
ATOM68	N	LEU A	8129.709	10.933	-9.643	1.00	0.00	N
ATOM69	CA	LEU A	8128.907	9.775	-10.020	1.00	0.00	C
ATOM70	C	LEU A	8128.373	9.055	-8.786	1.00	0.00	C
ATOM71	O	LEU A	8127.214	9.226	-8.408	1.00	0.00	O
ATOM72	CB	LEU A	8129.733	8.811	-10.875	1.00	0.00	C
ATOM73	CG	LEU A	8130.035	9.300	-12.295	1.00	0.00	C
ATOM74	CD1	LEU A	8131.479	9.764	-12.405	1.00	0.00	C
ATOM75	CD2	LEU A	8129.747	8.203	-13.310	1.00	0.00	C
ATOM76	H	LEU A	8130.632	10.798	-9.340	1.00	0.00	H
ATOM77	HA	LEU A	8128.071	10.128	-10.601	1.00	0.00	H
ATOM78	1HB	LEU A	8130.672	8.631	-10.370	1.00	0.00	H

ATOM79	2HB	LEU	A	8129.197	7.877	-10.946	1.00	0.00	H	
ATOM80	HG	LEU	A	8129.396	10.142	-12.520	1.00	0.00	H	
ATOM81	1HD1	LEU	A	8132.084	8.967	-12.811	1.00	0.00	H	
ATOM82	2HD1	LEU	A	8131.847	10.033	-11.426	1.00	0.00	H	
ATOM83	3HD1	LEU	A	8131.532	10.623	-13.057	1.00	0.00	H	
ATOM84	1HD2	LEU	A	8128.770	7.784	-13.120	1.00	0.00	H	
ATOM85	2HD2	LEU	A	8130.494	7.428	-13.224	1.00	0.00	H	
ATOM86	3HD2	LEU	A	8129.773	8.619	-14.307	1.00	0.00	H	
ATOM87	N	ALA	A	9129.225	8.249	-8.164	1.00	0.00	N	
ATOM88	CA	ALA	A	9128.841	7.501	-6.974	1.00	0.00	C	
ATOM89	C	ALA	A	9129.972	7.479	-5.949	1.00	0.00	C	
ATOM90	O	ALA	A	9130.411	6.414	-5.515	1.00	0.00	O	
ATOM91	CB	ALA	A	9128.437	6.083	-7.351	1.00	0.00	C	
ATOM92	H	ALA	A	9130.134	8.155	-8.515	1.00	0.00	H	
ATOM93	HA	ALA	A	9127.982	7.990	-6.536	1.00	0.00	H	
ATOM94	1HB	ALA	A	9127.590	5.779	-6.753	1.00	0.00	H	
ATOM95	2HB	ALA	A	9129.265	5.413	-7.170	1.00	0.00	H	
ATOM96	3HB	ALA	A	9128.169	6.050	-8.397	1.00	0.00	H	
ATOM97	N	MET	A	10130.436	8.662	-5.564	1.00	0.00	N	
ATOM98	CA	MET	A	10131.515	8.780	-4.589	1.00	0.00	C	
ATOM99	C	MET	A	10131.300	9.989	-3.682	1.00	0.00	C	
ATOM	100	O	MET	A	10131.896	11.046	-3.891	1.00	0.00	O
ATOM	101	CB	MET	A	10132.865	8.894	-5.300	1.00	0.00	C
ATOM	102	CG	MET	A	10133.150	7.745	-6.251	1.00	0.00	C
ATOM	103	SD	MET	A	10132.756	8.146	-7.965	1.00	0.00	S
ATOM	104	CE	MET	A	10132.516	6.510	-8.649	1.00	0.00	C
ATOM	105	H	MET	A	10130.045	9.477	-5.944	1.00	0.00	H

ATOM	106	HA	MET A	10131.511	7.885	-3.984	1.00	0.00	H
ATOM	107	1HB	MET A	10132.884	9.814	-5.863	1.00	0.00	H
ATOM	108	2HB	MET A	10133.647	8.922	-4.556	1.00	0.00	H
ATOM	109	1HG	MET A	10134.199	7.495	-6.189	1.00	0.00	H
ATOM	110	2HG	MET A	10132.561	6.891	-5.952	1.00	0.00	H
ATOM	111	1HE	MET A	10132.646	5.771	-7.871	1.00	0.00	H
ATOM	112	2HE	MET A	10133.238	6.337	-9.434	1.00	0.00	H
ATOM	113	3HE	MET A	10131.518	6.432	-9.055	1.00	0.00	H
ATOM	114	N	PRO A	11130.443	9.848	-2.657	1.00	0.00	N
ATOM	115	CA	PRO A	11130.153	10.934	-1.716	1.00	0.00	C
ATOM	116	C	PRO A	11131.417	11.515	-1.082	1.00	0.00	C
ATOM	117	O	PRO A	11131.571	12.734	-1.000	1.00	0.00	O
ATOM	118	CB	PRO A	11129.275	10.269	-0.652	1.00	0.00	C
ATOM	119	CG	PRO A	11128.670	9.092	-1.338	1.00	0.00	C
ATOM	120	CD	PRO A	11129.690	8.622	-2.334	1.00	0.00	C
ATOM	121	HA	PRO A	11129.600	11.730	-2.194	1.00	0.00	H
ATOM	122	1HB	PRO A	11129.885	9.969	0.187	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.517	10.964	-0.322	1.00	0.00	H
ATOM	124	1HG	PRO A	11128.463	8.314	-0.617	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.762	9.388	-1.842	1.00	0.00	H
ATOM	126	1HD	PRO A	11130.338	7.879	-1.891	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.205	8.225	-3.214	1.00	0.00	H
ATOM	128	N	PRO A	12132.345	10.653	-0.619	1.00	0.00	N
ATOM	129	CA	PRO A	12133.588	11.103	0.006	1.00	0.00	C
ATOM	130	C	PRO A	12134.652	11.478	-1.020	1.00	0.00	C
ATOM	131	O	PRO A	12135.521	12.308	-0.753	1.00	0.00	O
ATOM	132	CB	PRO A	12134.024	9.881	0.809	1.00	0.00	C

ATOM	133	CG	PRO A	12133.519	8.717	0.026	1.00	0.00	C
ATOM	134	CD	PRO A	12132.259	9.179	-0.666	1.00	0.00	C
ATOM	135	HA	PRO A	12133.420	11.935	0.673	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.102	9.866	0.892	1.00	0.00	H
ATOM	137	2HB	PRO A	12133.582	9.915	1.793	1.00	0.00	H
ATOM	138	1HG	PRO A	12134.257	8.421	-0.704	1.00	0.00	H
ATOM	139	2HG	PRO A	12133.300	7.896	0.692	1.00	0.00	H
ATOM	140	1HD	PRO A	12132.244	8.827	-1.687	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.389	8.826	-0.133	1.00	0.00	H
ATOM	142	N	GLY A	13134.578	10.860	-2.194	1.00	0.00	N
ATOM	143	CA	GLY A	13135.540	11.141	-3.243	1.00	0.00	C
ATOM	144	C	GLY A	13136.372	9.926	-3.606	1.00	0.00	C
ATOM	145	O	GLY A	13136.823	9.792	-4.744	1.00	0.00	O
ATOM	146	H	GLY A	13133.864	10.207	-2.350	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.011	11.477	-4.122	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.201	11.929	-2.911	1.00	0.00	H
ATOM	149	N	ASN A	14136.576	9.041	-2.637	1.00	0.00	N
ATOM	150	CA	ASN A	14137.359	7.831	-2.859	1.00	0.00	C
ATOM	151	C	ASN A	14136.448	6.622	-3.052	1.00	0.00	C
ATOM	152	O	ASN A	14136.504	5.949	-4.081	1.00	0.00	O
ATOM	153	CB	ASN A	14138.306	7.588	-1.683	1.00	0.00	C
ATOM	154	CG	ASN A	14139.254	8.748	-1.453	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.787	9.325	-2.401	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.469	9.095	-0.190	1.00	0.00	N
ATOM	157	H	ASN A	14136.190	9.205	-1.751	1.00	0.00	H
ATOM	158	HA	ASN A	14137.943	7.973	-3.756	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.724	7.440	-0.785	1.00	0.00	H

ATOM	160	2HB	ASN A	14138.890	6.700	-1.878	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.010	8.591	0.514	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.078	9.844	-0.013	1.00	0.00	H
ATOM	163	N	SER A	15135.610	6.354	-2.056	1.00	0.00	N
ATOM	164	CA	SER A	15134.688	5.227	-2.115	1.00	0.00	C
ATOM	165	C	SER A	15133.686	5.283	-0.966	1.00	0.00	C
ATOM	166	O	SER A	15132.477	5.196	-1.179	1.00	0.00	O
ATOM	167	CB	SER A	15135.459	3.906	-2.071	1.00	0.00	C
ATOM	168	OG	SER A	15136.078	3.719	-0.811	1.00	0.00	O
ATOM	169	H	SER A	15135.614	6.927	-1.261	1.00	0.00	H
ATOM	170	HA	SER A	15134.149	5.288	-3.050	1.00	0.00	H
ATOM	171	1HB	SER A	15134.777	3.087	-2.248	1.00	0.00	H
ATOM	172	2HB	SER A	15136.221	3.911	-2.837	1.00	0.00	H
ATOM	173	HG	SER A	15136.885	4.237	-0.771	1.00	0.00	H
ATOM	174	N	HIS A	16134.199	5.429	0.251	1.00	0.00	N
ATOM	175	CA	HIS A	16133.350	5.499	1.435	1.00	0.00	C
ATOM	176	C	HIS A	16134.106	6.106	2.612	1.00	0.00	C
ATOM	177	O	HIS A	16133.587	6.974	3.314	1.00	0.00	O
ATOM	178	CB	HIS A	16132.842	4.104	1.805	1.00	0.00	C
ATOM	179	CG	HIS A	16131.526	3.761	1.180	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.458	4.633	1.148	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.106	2.634	0.558	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.439	4.057	0.535	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.807	2.844	0.167	1.00	0.00	N
ATOM	184	H	HIS A	16135.171	5.494	0.356	1.00	0.00	H
ATOM	185	HA	HIS A	16132.506	6.129	1.200	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.563	3.368	1.482	1.00	0.00	H

ATOM	187	2HB	HIS A	16132.728	4.043	2.878	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.447	5.540	1.520	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.686	1.736	0.400	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.470	4.503	0.363	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.216	2.171	-0.230	1.00	0.00	H
ATOM	192	N	GLY A	17135.334	5.644	2.821	1.00	0.00	N
ATOM	193	CA	GLY A	17136.141	6.153	3.915	1.00	0.00	C
ATOM	194	C	GLY A	17137.524	5.533	3.954	1.00	0.00	C
ATOM	195	O	GLY A	17138.061	5.264	5.029	1.00	0.00	O
ATOM	196	H	GLY A	17135.695	4.952	2.230	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.242	7.223	3.806	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.638	5.944	4.847	1.00	0.00	H
ATOM	199	N	LEU A	18138.101	5.304	2.779	1.00	0.00	N
ATOM	200	CA	LEU A	18139.430	4.711	2.683	1.00	0.00	C
ATOM	201	C	LEU A	18140.509	5.741	3.000	1.00	0.00	C
ATOM	202	O	LEU A	18140.848	6.578	2.164	1.00	0.00	O
ATOM	203	CB	LEU A	18139.654	4.136	1.283	1.00	0.00	C
ATOM	204	CG	LEU A	18138.875	2.856	0.976	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.211	2.347	-0.417	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.171	1.789	2.022	1.00	0.00	C
ATOM	207	H	LEU A	18137.622	5.539	1.957	1.00	0.00	H
ATOM	208	HA	LEU A	18139.488	3.910	3.404	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.372	4.887	0.559	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.707	3.926	1.167	1.00	0.00	H
ATOM	211	HG	LEU A	18137.817	3.070	1.007	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.646	1.449	-0.619	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.267	2.128	-0.475	1.00	0.00	H

ATOM	214	3HD1	LEU A	18138.960	3.103	-1.147	1.00	0.00	H
ATOM	215	1HD2	LEU A	18138.386	1.786	2.764	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.116	2.005	2.498	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.220	0.822	1.546	1.00	0.00	H
ATOM	218	N	GLU A	19141.047	5.671	4.214	1.00	0.00	N
ATOM	219	CA	GLU A	19142.088	6.596	4.642	1.00	0.00	C
ATOM	220	C	GLU A	19143.094	5.900	5.555	1.00	0.00	C
ATOM	221	O	GLU A	19142.957	4.714	5.854	1.00	0.00	O
ATOM	222	CB	GLU A	19141.470	7.794	5.366	1.00	0.00	C
ATOM	223	CG	GLU A	19140.642	7.409	6.580	1.00	0.00	C
ATOM	224	CD	GLU A	19140.833	8.365	7.743	1.00	0.00	C
ATOM	225	OE1	GLU A	19141.267	7.909	8.821	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.549	9.569	7.573	1.00	0.00	O
ATOM	227	H	GLU A	19140.736	4.981	4.836	1.00	0.00	H
ATOM	228	HA	GLU A	19142.604	6.947	3.760	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.262	8.453	5.690	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.831	8.327	4.676	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.599	7.408	6.304	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.931	6.418	6.898	1.00	0.00	H
ATOM	233	N	VAL A	20144.102	6.646	5.995	1.00	0.00	N
ATOM	234	CA	VAL A	20145.129	6.100	6.874	1.00	0.00	C
ATOM	235	C	VAL A	20144.519	5.574	8.170	1.00	0.00	C
ATOM	236	O	VAL A	20143.713	6.251	8.807	1.00	0.00	O
ATOM	237	CB	VAL A	20146.198	7.156	7.214	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.345	6.528	7.991	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.707	7.827	5.947	1.00	0.00	C
ATOM	240	H	VAL A	20144.157	7.586	5.722	1.00	0.00	H

ATOM	241	HA	VAL A	20145.611	5.283	6.356	1.00	0.00	H
ATOM	242	HB	VAL A	20145.743	7.912	7.837	1.00	0.00	H
ATOM	243	1HG1	VAL A	20148.196	7.193	7.978	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.616	5.587	7.534	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.037	6.357	9.012	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.826	7.086	5.170	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.658	8.296	6.146	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.997	8.574	5.625	1.00	0.00	H
ATOM	249	N	GLY A	21144.909	4.361	8.551	1.00	0.00	N
ATOM	250	CA	GLY A	21144.389	3.766	9.768	1.00	0.00	C
ATOM	251	C	GLY A	21143.355	2.692	9.492	1.00	0.00	C
ATOM	252	O	GLY A	21143.267	1.704	10.221	1.00	0.00	O
ATOM	253	H	GLY A	21145.553	3.868	8.002	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.209	3.327	10.319	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.937	4.539	10.371	1.00	0.00	H
ATOM	256	N	SER A	22142.573	2.885	8.436	1.00	0.00	N
ATOM	257	CA	SER A	22141.539	1.927	8.063	1.00	0.00	C
ATOM	258	C	SER A	22142.075	0.916	7.054	1.00	0.00	C
ATOM	259	O	SER A	22142.823	1.271	6.144	1.00	0.00	O
ATOM	260	CB	SER A	22140.325	2.654	7.480	1.00	0.00	C
ATOM	261	OG	SER A	22139.898	3.701	8.333	1.00	0.00	O
ATOM	262	H	SER A	22142.693	3.692	7.893	1.00	0.00	H
ATOM	263	HA	SER A	22141.238	1.401	8.956	1.00	0.00	H
ATOM	264	1HB	SER A	22140.587	3.073	6.520	1.00	0.00	H
ATOM	265	2HB	SER A	22139.513	1.952	7.357	1.00	0.00	H
ATOM	266	HG	SER A	22139.126	4.127	7.955	1.00	0.00	H
ATOM	267	N	LEU A	23141.687	-0.344	7.223	1.00	0.00	N

ATOM	268	CA	LEU A	23142.130	-1.405	6.328	1.00	0.00	C
ATOM	269	C	LEU A	23141.531	-1.230	4.935	1.00	0.00	C
ATOM	270	O	LEU A	23140.386	-0.801	4.790	1.00	0.00	O
ATOM	271	CB	LEU A	23141.744	-2.772	6.895	1.00	0.00	C
ATOM	272	CG	LEU A	23142.431	-3.144	8.208	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.538	-4.048	9.042	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.770	-3.816	7.937	1.00	0.00	C
ATOM	275	H	LEU A	23141.090	-0.565	7.970	1.00	0.00	H
ATOM	276	HA	LEU A	23143.205	-1.347	6.253	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.676	-2.783	7.054	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.989	-3.525	6.161	1.00	0.00	H
ATOM	279	HG	LEU A	23142.617	-2.244	8.774	1.00	0.00	H
ATOM	280	1HD1	LEU A	23142.041	-4.300	9.963	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.325	-4.952	8.489	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.614	-3.536	9.264	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.461	-3.574	8.731	1.00	0.00	H
ATOM	284	2HD2	LEU A	23144.165	-3.463	6.996	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.633	-4.886	7.891	1.00	0.00	H
ATOM	286	N	ALA A	24142.313	-1.568	3.915	1.00	0.00	N
ATOM	287	CA	ALA A	24141.861	-1.450	2.534	1.00	0.00	C
ATOM	288	C	ALA A	24142.403	-2.592	1.681	1.00	0.00	C
ATOM	289	O	ALA A	24143.501	-3.093	1.922	1.00	0.00	O
ATOM	290	CB	ALA A	24142.284	-0.109	1.953	1.00	0.00	C
ATOM	291	H	ALA A	24143.215	-1.905	4.095	1.00	0.00	H
ATOM	292	HA	ALA A	24140.782	-1.492	2.531	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.454	-0.213	0.892	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.195	0.220	2.433	1.00	0.00	H

ATOM	295	3HB	ALA A	24141.506	0.620	2.123	1.00	0.00	H
ATOM	296	N	GLU A	25141.625	-3.000	0.683	1.00	0.00	N
ATOM	297	CA	GLU A	25142.027	-4.085	-0.206	1.00	0.00	C
ATOM	298	C	GLU A	25142.292	-3.564	-1.615	1.00	0.00	C
ATOM	299	O	GLU A	25141.654	-2.613	-2.065	1.00	0.00	O
ATOM	300	CB	GLU A	25140.948	-5.169	-0.244	1.00	0.00	C
ATOM	301	CG	GLU A	25141.402	-6.455	-0.914	1.00	0.00	C
ATOM	302	CD	GLU A	25140.293	-7.124	-1.702	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.310	-8.368	-1.813	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.406	-6.404	-2.207	1.00	0.00	O
ATOM	305	H	GLU A	25140.760	-2.562	0.541	1.00	0.00	H
ATOM	306	HA	GLU A	25142.939	-4.511	0.184	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.651	-5.400	0.768	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.093	-4.789	-0.783	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.214	-6.228	-1.587	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.747	-7.140	-0.153	1.00	0.00	H
ATOM	311	N	VAL A	26143.237	-4.195	-2.305	1.00	0.00	N
ATOM	312	CA	VAL A	26143.585	-3.794	-3.663	1.00	0.00	C
ATOM	313	C	VAL A	26143.070	-4.804	-4.682	1.00	0.00	C
ATOM	314	O	VAL A	26142.814	-5.962	-4.350	1.00	0.00	O
ATOM	315	CB	VAL A	26145.109	-3.645	-3.830	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.442	-3.046	-5.188	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.689	-2.798	-2.708	1.00	0.00	C
ATOM	318	H	VAL A	26143.710	-4.945	-1.892	1.00	0.00	H
ATOM	319	HA	VAL A	26143.128	-2.835	-3.857	1.00	0.00	H
ATOM	320	HB	VAL A	26145.555	-4.628	-3.777	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.206	-3.759	-5.964	1.00	0.00	H

ATOM	322	2HG1	VAL A	26146.495	-2.806	-5.227	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.862	-2.146	-5.337	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.698	-2.506	-2.962	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.699	-3.371	-1.793	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.082	-1.915	-2.574	1.00	0.00	H
ATOM	327	N	LYS A	27142.921	-4.358	-5.925	1.00	0.00	N
ATOM	328	CA	LYS A	27142.436	-5.222	-6.995	1.00	0.00	C
ATOM	329	C	LYS A	27143.592	-5.717	-7.860	1.00	0.00	C
ATOM	330	O	LYS A	27143.792	-5.240	-8.978	1.00	0.00	O
ATOM	331	CB	LYS A	27141.416	-4.478	-7.859	1.00	0.00	C
ATOM	332	CG	LYS A	27140.325	-5.376	-8.419	1.00	0.00	C
ATOM	333	CD	LYS A	27139.217	-4.565	-9.072	1.00	0.00	C
ATOM	334	CE	LYS A	27138.418	-5.404	-10.055	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.175	-5.947	-9.440	1.00	0.00	N
ATOM	336	H	LYS A	27143.141	-3.425	-6.128	1.00	0.00	H
ATOM	337	HA	LYS A	27141.954	-6.075	-6.539	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.949	-3.709	-7.262	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.933	-4.016	-8.687	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.757	-6.035	-9.158	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.904	-5.960	-7.615	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.552	-4.197	-8.304	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.658	-3.730	-9.599	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.150	-4.788	-10.901	1.00	0.00	H
ATOM	345	2HE	LYS A	27139.033	-6.226	-10.391	1.00	0.00	H
ATOM	346	1HZ	LYS A	27136.546	-5.168	-9.158	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.409	-6.510	-8.598	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.675	-6.553	-10.121	1.00	0.00	H

ATOM	349	N	GLU A	28144.348	-6.675	-7.336	1.00	0.00	N
ATOM	350	CA	GLU A	28145.485	-7.234	-8.060	1.00	0.00	C
ATOM	351	C	GLU A	28145.308	-8.734	-8.273	1.00	0.00	C
ATOM	352	O	GLU A	28144.236	-9.284	-8.024	1.00	0.00	O
ATOM	353	CB	GLU A	28146.784	-6.962	-7.298	1.00	0.00	C
ATOM	354	CG	GLU A	28147.894	-6.398	-8.170	1.00	0.00	C
ATOM	355	CD	GLU A	28149.273	-6.814	-7.700	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.701	-7.939	-8.037	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.927	-6.017	-6.996	1.00	0.00	O
ATOM	358	H	GLU A	28144.139	-7.014	-6.441	1.00	0.00	H
ATOM	359	HA	GLU A	28145.535	-6.750	-9.023	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.583	-6.256	-6.507	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.134	-7.887	-6.862	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.754	-6.750	-9.181	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.834	-5.320	-8.153	1.00	0.00	H
ATOM	364	N	ASN A	29146.368	-9.390	-8.733	1.00	0.00	N
ATOM	365	CA	ASN A	29146.330	-10.827	-8.978	1.00	0.00	C
ATOM	366	C	ASN A	29146.383	-11.602	-7.664	1.00	0.00	C
ATOM	367	O	ASN A	29145.481	-12.382	-7.356	1.00	0.00	O
ATOM	368	CB	ASN A	29147.492	-11.244	-9.881	1.00	0.00	C
ATOM	369	CG	ASN A	29147.075	-11.385	-11.332	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.152	-12.470	-11.908	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.632	-10.286	-11.930	1.00	0.00	N
ATOM	372	H	ASN A	29147.195	-8.896	-8.912	1.00	0.00	H
ATOM	373	HA	ASN A	29145.399	-11.052	-9.477	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.272	-10.498	-9.822	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.882	-12.193	-9.542	1.00	0.00	H

ATOM	376	1HD2	ASN A	29146.599	-9.457	-11.409	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.356	-10.349	-12.868	1.00	0.00	H
ATOM	378	N	PRO A	30147.447	-11.398	-6.867	1.00	0.00	N
ATOM	379	CA	PRO A	30147.615	-12.080	-5.582	1.00	0.00	C
ATOM	380	C	PRO A	30146.774	-11.446	-4.474	1.00	0.00	C
ATOM	381	O	PRO A	30147.040	-10.320	-4.053	1.00	0.00	O
ATOM	382	CB	PRO A	30149.102	-11.897	-5.291	1.00	0.00	C
ATOM	383	CG	PRO A	30149.451	-10.601	-5.938	1.00	0.00	C
ATOM	384	CD	PRO A	30148.571	-10.485	-7.157	1.00	0.00	C
ATOM	385	HA	PRO A	30147.386	-13.132	-5.657	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.263	-11.865	-4.223	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.660	-12.715	-5.722	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.254	-9.787	-5.256	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.491	-10.604	-6.227	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.221	-9.470	-7.272	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.106	-10.802	-8.038	1.00	0.00	H
ATOM	392	N	PRO A	31145.743	-12.160	-3.985	1.00	0.00	N
ATOM	393	CA	PRO A	31144.867	-11.651	-2.922	1.00	0.00	C
ATOM	394	C	PRO A	31145.631	-11.361	-1.634	1.00	0.00	C
ATOM	395	O	PRO A	31145.878	-12.261	-0.831	1.00	0.00	O
ATOM	396	CB	PRO A	31143.861	-12.788	-2.699	1.00	0.00	C
ATOM	397	CG	PRO A	31143.932	-13.617	-3.935	1.00	0.00	C
ATOM	398	CD	PRO A	31145.346	-13.508	-4.423	1.00	0.00	C
ATOM	399	HA	PRO A	31144.345	-10.759	-3.236	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.145	-13.356	-1.825	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.874	-12.374	-2.559	1.00	0.00	H
ATOM	402	1HG	PRO A	31143.693	-14.645	-3.702	1.00	0.00	H

- 1129 -

ATOM	403	2HG	PRO A	31143.248	-13.232	-4.677	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.965	-14.263	-3.962	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.383	-13.591	-5.499	1.00	0.00	H
ATOM	406	N	PHE A	32146.003	-10.099	-1.443	1.00	0.00	N
ATOM	407	CA	PHE A	32146.739	-9.692	-0.251	1.00	0.00	C
ATOM	408	C	PHE A	32145.957	-8.649	0.541	1.00	0.00	C
ATOM	409	O	PHE A	32145.177	-7.882	-0.023	1.00	0.00	O
ATOM	410	CB	PHE A	32148.111	-9.133	-0.638	1.00	0.00	C
ATOM	411	CG	PHE A	32148.053	-8.094	-1.721	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.601	-8.346	-2.969	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.452	-6.868	-1.492	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.550	-7.391	-3.967	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.398	-5.910	-2.486	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.948	-6.173	-3.726	1.00	0.00	C
ATOM	417	H	PHE A	32145.778	-9.427	-2.119	1.00	0.00	H
ATOM	418	HA	PHE A	32146.878	-10.566	0.367	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.565	-8.682	0.231	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.735	-9.944	-0.985	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.071	-9.298	-3.159	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.022	-6.661	-0.523	1.00	0.00	H
ATOM	423	HE1	PHE A	32148.981	-7.600	-4.936	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.927	-4.957	-2.295	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.907	-5.425	-4.505	1.00	0.00	H
ATOM	426	N	TYR A	33146.172	-8.627	1.852	1.00	0.00	N
ATOM	427	CA	TYR A	33145.487	-7.678	2.724	1.00	0.00	C
ATOM	428	C	TYR A	33146.483	-6.735	3.392	1.00	0.00	C
ATOM	429	O	TYR A	33147.663	-7.058	3.527	1.00	0.00	O

ATOM	430	CB	TYR A	33144.680	-8.423	3.788	1.00	0.00	C
ATOM	431	CG	TYR A	33143.321	-8.881	3.308	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.445	-7.995	2.695	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.916	-10.200	3.468	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.203	-8.410	2.254	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.675	-10.623	3.030	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.822	-9.724	2.425	1.00	0.00	C
ATOM	437	OH	TYR A	33139.587	-10.141	1.987	1.00	0.00	O
ATOM	438	H	TYR A	33146.805	-9.264	2.244	1.00	0.00	H
ATOM	439	HA	TYR A	33144.813	-7.096	2.115	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.231	-9.295	4.104	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.530	-7.771	4.638	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.745	-6.966	2.563	1.00	0.00	H
ATOM	443	HD2	TYR A	33143.585	-10.901	3.944	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.535	-7.706	1.780	1.00	0.00	H
ATOM	445	HE2	TYR A	33141.378	-11.653	3.163	1.00	0.00	H
ATOM	446	HH	TYR A	33138.915	-9.527	2.291	1.00	0.00	H
ATOM	447	N	GLY A	34146.000	-5.569	3.806	1.00	0.00	N
ATOM	448	CA	GLY A	34146.860	-4.597	4.454	1.00	0.00	C
ATOM	449	C	GLY A	34146.089	-3.403	4.982	1.00	0.00	C
ATOM	450	O	GLY A	34144.865	-3.346	4.867	1.00	0.00	O
ATOM	451	H	GLY A	34145.050	-5.367	3.670	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.369	-5.075	5.278	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.594	-4.251	3.743	1.00	0.00	H
ATOM	454	N	VAL A	35146.806	-2.446	5.563	1.00	0.00	N
ATOM	455	CA	VAL A	35146.181	-1.248	6.109	1.00	0.00	C
ATOM	456	C	VAL A	35146.793	0.013	5.508	1.00	0.00	C

ATOM	457	O	VAL A	35147.996	0.070	5.250	1.00	0.00	O
ATOM	458	CB	VAL A	35146.314	-1.196	7.645	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.778	-1.180	8.059	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.577	0.012	8.206	1.00	0.00	C
ATOM	461	H	VAL A	35147.779	-2.549	5.624	1.00	0.00	H
ATOM	462	HA	VAL A	35145.131	-1.278	5.861	1.00	0.00	H
ATOM	463	HB	VAL A	35145.860	-2.086	8.054	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.066	-2.162	8.404	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.920	-0.463	8.855	1.00	0.00	H
ATOM	466	3HG1	VAL A	35148.389	-0.902	7.213	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.215	-0.216	9.197	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.744	0.256	7.564	1.00	0.00	H
ATOM	469	3HG2	VAL A	35146.252	0.854	8.255	1.00	0.00	H
ATOM	470	N	ILE A	36145.957	1.023	5.287	1.00	0.00	N
ATOM	471	CA	ILE A	36146.417	2.284	4.717	1.00	0.00	C
ATOM	472	C	ILE A	36147.383	2.991	5.660	1.00	0.00	C
ATOM	473	O	ILE A	36147.192	2.989	6.877	1.00	0.00	O
ATOM	474	CB	ILE A	36145.237	3.227	4.404	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.177	2.498	3.576	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.730	4.467	3.673	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.978	3.357	3.239	1.00	0.00	C
ATOM	478	H	ILE A	36145.010	0.918	5.514	1.00	0.00	H
ATOM	479	HA	ILE A	36146.929	2.063	3.791	1.00	0.00	H
ATOM	480	HB	ILE A	36144.800	3.541	5.340	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.619	2.169	2.647	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.826	1.638	4.126	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.006	4.756	2.925	1.00	0.00	H

ATOM	484	2HG2	ILE A	36146.675	4.252	3.195	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.859	5.274	4.379	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.825	3.361	2.170	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.151	4.367	3.582	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.100	2.957	3.726	1.00	0.00	H
ATOM	489	N	ARG A	37148.422	3.594	5.092	1.00	0.00	N
ATOM	490	CA	ARG A	37149.419	4.306	5.884	1.00	0.00	C
ATOM	491	C	ARG A	37149.600	5.734	5.378	1.00	0.00	C
ATOM	492	O	ARG A	37149.315	6.696	6.093	1.00	0.00	O
ATOM	493	CB	ARG A	37150.757	3.565	5.841	1.00	0.00	C
ATOM	494	CG	ARG A	37150.628	2.064	6.040	1.00	0.00	C
ATOM	495	CD	ARG A	37150.143	1.726	7.441	1.00	0.00	C
ATOM	496	NE	ARG A	37150.984	2.329	8.471	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.601	2.499	9.735	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.394	2.110	10.129	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.427	3.058	10.608	1.00	0.00	N
ATOM	500	H	ARG A	37148.520	3.561	4.118	1.00	0.00	H
ATOM	501	HA	ARG A	37149.069	4.340	6.905	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.224	3.742	4.884	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.396	3.955	6.620	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.922	1.675	5.323	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.594	1.605	5.883	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.133	2.090	7.555	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.153	0.653	7.563	1.00	0.00	H
ATOM	508	HE	ARG A	37151.881	2.624	8.209	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.767	1.687	9.476	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.113	2.240	11.079	1.00	0.00	H

ATOM	511	1HH2	ARG	A	37152.338	3.353	10.317	1.00	0.00	H
ATOM	512	2HH2	ARG	A	37151.140	3.187	11.558	1.00	0.00	H
ATOM	513	N	TRP	A	38150.072	5.866	4.142	1.00	0.00	N
ATOM	514	CA	TRP	A	38150.288	7.178	3.544	1.00	0.00	C
ATOM	515	C	TRP	A	38149.492	7.328	2.251	1.00	0.00	C
ATOM	516	O	TRP	A	38149.509	6.447	1.392	1.00	0.00	O
ATOM	517	CB	TRP	A	38151.780	7.399	3.270	1.00	0.00	C
ATOM	518	CG	TRP	A	38152.063	8.608	2.427	1.00	0.00	C
ATOM	519	CD1	TRP	A	38152.324	9.874	2.866	1.00	0.00	C
ATOM	520	CD2	TRP	A	38152.107	8.664	0.996	1.00	0.00	C
ATOM	521	NE1	TRP	A	38152.526	10.713	1.797	1.00	0.00	N
ATOM	522	CE2	TRP	A	38152.399	9.993	0.638	1.00	0.00	C
ATOM	523	CE3	TRP	A	38151.928	7.718	-0.018	1.00	0.00	C
ATOM	524	CZ2	TRP	A	38152.516	10.399	-0.691	1.00	0.00	C
ATOM	525	CZ3	TRP	A	38152.045	8.121	-1.335	1.00	0.00	C
ATOM	526	CH2	TRP	A	38152.336	9.450	-1.661	1.00	0.00	C
ATOM	527	H	TRP	A	38150.280	5.062	3.622	1.00	0.00	H
ATOM	528	HA	TRP	A	38149.949	7.922	4.248	1.00	0.00	H
ATOM	529	1HB	TRP	A	38152.298	7.522	4.209	1.00	0.00	H
ATOM	530	2HB	TRP	A	38152.176	6.534	2.757	1.00	0.00	H
ATOM	531	HD1	TRP	A	38152.360	10.161	3.907	1.00	0.00	H
ATOM	532	HE1	TRP	A	38152.730	11.670	1.855	1.00	0.00	H
ATOM	533	HE3	TRP	A	38151.702	6.688	0.214	1.00	0.00	H
ATOM	534	HZ2	TRP	A	38152.738	11.420	-0.959	1.00	0.00	H
ATOM	535	HZ3	TRP	A	38151.910	7.403	-2.131	1.00	0.00	H
ATOM	536	HH2	TRP	A	38152.419	9.721	-2.704	1.00	0.00	H
ATOM	537	N	ILE	A	39148.803	8.456	2.118	1.00	0.00	N

ATOM	538	CA	ILE A	39148.008	8.733	0.928	1.00	0.00 C
ATOM	539	C	ILE A	39148.425	10.058	0.302	1.00	0.00 C
ATOM	540	O	ILE A	39148.116	11.128	0.827	1.00	0.00 O
ATOM	541	CB	ILE A	39146.503	8.781	1.255	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.092	7.549	2.061	1.00	0.00 C
ATOM	543	CG2	ILE A	39145.687	8.879	-0.026	1.00	0.00 C
ATOM	544	CD1	ILE A	39144.786	7.722	2.806	1.00	0.00 C
ATOM	545	H	ILE A	39148.836	9.121	2.836	1.00	0.00 H
ATOM	546	HA	ILE A	39148.179	7.937	0.218	1.00	0.00 H
ATOM	547	HB	ILE A	39146.313	9.668	1.841	1.00	0.00 H
ATOM	548	1HG1	ILE A	39145.982	6.708	1.392	1.00	0.00 H
ATOM	549	2HG1	ILE A	39146.861	7.328	2.786	1.00	0.00 H
ATOM	550	1HG2	ILE A	39146.116	8.231	-0.776	1.00	0.00 H
ATOM	551	2HG2	ILE A	39145.698	9.899	-0.383	1.00	0.00 H
ATOM	552	3HG2	ILE A	39144.670	8.577	0.171	1.00	0.00 H
ATOM	553	1HD1	ILE A	39144.681	6.934	3.538	1.00	0.00 H
ATOM	554	2HD1	ILE A	39143.964	7.676	2.107	1.00	0.00 H
ATOM	555	3HD1	ILE A	39144.781	8.680	3.306	1.00	0.00 H
ATOM	556	N	GLY A	40149.136	9.983	-0.819	1.00	0.00 N
ATOM	557	CA	GLY A	40149.587	11.188	-1.488	1.00	0.00 C
ATOM	558	C	GLY A	40150.050	10.933	-2.908	1.00	0.00 C
ATOM	559	O	GLY A	40149.843	9.848	-3.453	1.00	0.00 O
ATOM	560	H	GLY A	40149.357	9.104	-1.191	1.00	0.00 H
ATOM	561	1HA	GLY A	40148.778	11.900	-1.508	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.407	11.610	-0.926	1.00	0.00 H
ATOM	563	N	GLN A	41150.676	11.938	-3.509	1.00	0.00 N
ATOM	564	CA	GLN A	41151.171	11.830	-4.875	1.00	0.00 C

ATOM	565	C	GLN A	41152.650	12.210	-4.947	1.00	0.00 C
ATOM	566	O	GLN A	41153.014	13.357	-4.695	1.00	0.00 O
ATOM	567	CB	GLN A	41150.356	12.735	-5.799	1.00	0.00 C
ATOM	568	CG	GLN A	41148.852	12.582	-5.627	1.00	0.00 C
ATOM	569	CD	GLN A	41148.121	13.907	-5.696	1.00	0.00 C
ATOM	570	OE1	GLN A	41148.156	14.700	-4.755	1.00	0.00 O
ATOM	571	NE2	GLN A	41147.452	14.154	-6.815	1.00	0.00 N
ATOM	572	H	GLN A	41150.807	12.778	-3.022	1.00	0.00 H
ATOM	573	HA	GLN A	41151.053	10.806	-5.193	1.00	0.00 H
ATOM	574	1HB	GLN A	41150.615	13.762	-5.596	1.00	0.00 H
ATOM	575	2HB	GLN A	41150.606	12.504	-6.822	1.00	0.00 H
ATOM	576	1HG	GLN A	41148.476	11.940	-6.410	1.00	0.00 H
ATOM	577	2HG	GLN A	41148.657	12.129	-4.666	1.00	0.00 H
ATOM	578	1HE2	GLN A	41147.467	13.476	-7.523	1.00	0.00 H
ATOM	579	2HE2	GLN A	41146.970	15.005	-6.889	1.00	0.00 H
ATOM	580	N	PRO A	42153.526	11.248	-5.290	1.00	0.00 N
ATOM	581	CA	PRO A	42154.970	11.495	-5.387	1.00	0.00 C
ATOM	582	C	PRO A	42155.300	12.609	-6.376	1.00	0.00 C
ATOM	583	O	PRO A	42154.494	12.938	-7.247	1.00	0.00 O
ATOM	584	CB	PRO A	42155.535	10.160	-5.880	1.00	0.00 C
ATOM	585	CG	PRO A	42154.511	9.149	-5.496	1.00	0.00 C
ATOM	586	CD	PRO A	42153.188	9.849	-5.607	1.00	0.00 C
ATOM	587	HA	PRO A	42155.394	11.735	-4.424	1.00	0.00 H
ATOM	588	1HB	PRO A	42155.673	10.197	-6.951	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.481	9.965	-5.397	1.00	0.00 H
ATOM	590	1HG	PRO A	42154.549	8.309	-6.174	1.00	0.00 H
ATOM	591	2HG	PRO A	42154.678	8.821	-4.481	1.00	0.00 H

ATOM	592	1HD	PRO A	42152.797	9.763	-6.610	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.486	9.450	-4.889	1.00	0.00	H
ATOM	594	N	PRO A	43156.498	13.206	-6.255	1.00	0.00	N
ATOM	595	CA	PRO A	43156.932	14.287	-7.143	1.00	0.00	C
ATOM	596	C	PRO A	43157.257	13.788	-8.547	1.00	0.00	C
ATOM	597	O	PRO A	43158.402	13.454	-8.848	1.00	0.00	O
ATOM	598	CB	PRO A	43158.194	14.817	-6.464	1.00	0.00	C
ATOM	599	CG	PRO A	43158.722	13.662	-5.688	1.00	0.00	C
ATOM	600	CD	PRO A	43157.519	12.874	-5.244	1.00	0.00	C
ATOM	601	HA	PRO A	43156.194	15.072	-7.203	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.899	15.144	-7.215	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.940	15.644	-5.818	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.356	13.055	-6.317	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.273	14.017	-4.830	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.738	11.816	-5.252	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.204	13.188	-4.261	1.00	0.00	H
ATOM	608	N	GLY A	44156.242	13.740	-9.402	1.00	0.00	N
ATOM	609	CA	GLY A	44156.443	13.281	-10.762	1.00	0.00	C
ATOM	610	C	GLY A	44155.166	12.772	-11.398	1.00	0.00	C
ATOM	611	O	GLY A	44154.808	13.184	-12.502	1.00	0.00	O
ATOM	612	H	GLY A	44155.350	14.021	-9.106	1.00	0.00	H
ATOM	613	1HA	GLY A	44156.824	14.099	-11.354	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.171	12.484	-10.757	1.00	0.00	H
ATOM	615	N	LEU A	45154.477	11.874	-10.703	1.00	0.00	N
ATOM	616	CA	LEU A	45153.232	11.309	-11.212	1.00	0.00	C
ATOM	617	C	LEU A	45152.080	11.584	-10.252	1.00	0.00	C
ATOM	618	O	LEU A	45152.048	11.056	-9.141	1.00	0.00	O

ATOM	619	CB	LEU A	45153.383	9.802 -11.426	1.00	0.00	C
ATOM	620	CG	LEU A	45153.993	9.040 -10.248	1.00	0.00	C
ATOM	621	CD1	LEU A	45153.616	7.566 -10.311	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.507	9.208 -10.230	1.00	0.00	C
ATOM	623	H	LEU A	45154.812	11.585 -9.827	1.00	0.00	H
ATOM	624	HA	LEU A	45153.016	11.779 -12.159	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.405	9.390 -11.629	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.010	9.644 -12.292	1.00	0.00	H
ATOM	627	HG	LEU A	45153.600	9.444 -9.326	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.508	6.968 -10.422	1.00	0.00	H
ATOM	629	2HD1	LEU A	45152.962	7.395 -11.153	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.108	7.286 -9.399	1.00	0.00	H
ATOM	631	1HD2	LEU A	45155.978	8.267 -10.475	1.00	0.00	H
ATOM	632	2HD2	LEU A	45155.821	9.522 -9.245	1.00	0.00	H
ATOM	633	3HD2	LEU A	45155.797	9.954 -10.954	1.00	0.00	H
ATOM	634	N	ASN A	46151.134	12.411 -10.685	1.00	0.00	N
ATOM	635	CA	ASN A	46149.985	12.744 -9.853	1.00	0.00	C
ATOM	636	C	ASN A	46149.025	11.564 -9.775	1.00	0.00	C
ATOM	637	O	ASN A	46148.334	11.244 -10.743	1.00	0.00	O
ATOM	638	CB	ASN A	46149.263	13.970 -10.414	1.00	0.00	C
ATOM	639	CG	ASN A	46148.587	14.788 -9.332	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.364	14.927 -9.315	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.382	15.336 -8.419	1.00	0.00	N
ATOM	642	H	ASN A	46151.209	12.804 -11.580	1.00	0.00	H
ATOM	643	HA	ASN A	46150.346	12.969 -8.860	1.00	0.00	H
ATOM	644	1HB	ASN A	46149.978	14.601 -10.921	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.511	13.647 -11.118	1.00	0.00	H

ATOM	646	1HD2	ASN	A	46150.346	15.184	-8.495	1.00	0.00	H
ATOM	647	2HD2	ASN	A	46148.971	15.871	-7.709	1.00	0.00	H
ATOM	648	N	GLU	A	47148.986	10.919	-8.614	1.00	0.00	N
ATOM	649	CA	GLU	A	47148.111	9.773	-8.401	1.00	0.00	C
ATOM	650	C	GLU	A	47148.019	9.432	-6.918	1.00	0.00	C
ATOM	651	O	GLU	A	47149.028	9.143	-6.276	1.00	0.00	O
ATOM	652	CB	GLU	A	47148.617	8.560	-9.186	1.00	0.00	C
ATOM	653	CG	GLU	A	47150.131	8.423	-9.196	1.00	0.00	C
ATOM	654	CD	GLU	A	47150.624	7.484	-10.279	1.00	0.00	C
ATOM	655	OE1	GLU	A	47150.969	6.329	-9.952	1.00	0.00	O
ATOM	656	OE2	GLU	A	47150.664	7.902	-11.456	1.00	0.00	O
ATOM	657	H	GLU	A	47149.561	11.222	-7.882	1.00	0.00	H
ATOM	658	HA	GLU	A	47147.127	10.037	-8.759	1.00	0.00	H
ATOM	659	1HB	GLU	A	47148.200	7.665	-8.750	1.00	0.00	H
ATOM	660	2HB	GLU	A	47148.279	8.642	-10.209	1.00	0.00	H
ATOM	661	1HG	GLU	A	47150.567	9.396	-9.359	1.00	0.00	H
ATOM	662	2HG	GLU	A	47150.453	8.043	-8.237	1.00	0.00	H
ATOM	663	N	VAL	A	48146.806	9.458	-6.380	1.00	0.00	N
ATOM	664	CA	VAL	A	48146.596	9.143	-4.973	1.00	0.00	C
ATOM	665	C	VAL	A	48146.991	7.702	-4.680	1.00	0.00	C
ATOM	666	O	VAL	A	48146.235	6.771	-4.959	1.00	0.00	O
ATOM	667	CB	VAL	A	48145.128	9.358	-4.559	1.00	0.00	C
ATOM	668	CG1	VAL	A	48144.974	9.233	-3.051	1.00	0.00	C
ATOM	669	CG2	VAL	A	48144.629	10.711	-5.044	1.00	0.00	C
ATOM	670	H	VAL	A	48146.036	9.690	-6.940	1.00	0.00	H
ATOM	671	HA	VAL	A	48147.217	9.805	-4.386	1.00	0.00	H
ATOM	672	HB	VAL	A	48144.528	8.589	-5.023	1.00	0.00	H

ATOM	673	1HG1 VAL A	48144.001	9.600	-2.757	1.00	0.00	H
ATOM	674	2HG1 VAL A	48145.741	9.816	-2.562	1.00	0.00	H
ATOM	675	3HG1 VAL A	48145.071	8.197	-2.764	1.00	0.00	H
ATOM	676	1HG2 VAL A	48143.931	11.115	-4.324	1.00	0.00	H
ATOM	677	2HG2 VAL A	48144.136	10.592	-5.996	1.00	0.00	H
ATOM	678	3HG2 VAL A	48145.465	11.386	-5.152	1.00	0.00	H
ATOM	679	N LEU A	49148.181	7.521	-4.117	1.00	0.00	N
ATOM	680	CA LEU A	49148.678	6.191	-3.789	1.00	0.00	C
ATOM	681	C LEU A	49148.629	5.954	-2.286	1.00	0.00	C
ATOM	682	O LEU A	49149.336	6.610	-1.521	1.00	0.00	O
ATOM	683	CB LEU A	49150.110	6.016	-4.298	1.00	0.00	C
ATOM	684	CG LEU A	49150.286	6.182	-5.809	1.00	0.00	C
ATOM	685	CD1 LEU A	49151.730	6.526	-6.143	1.00	0.00	C
ATOM	686	CD2 LEU A	49149.855	4.919	-6.537	1.00	0.00	C
ATOM	687	H LEU A	49148.740	8.302	-3.918	1.00	0.00	H
ATOM	688	HA LEU A	49148.040	5.470	-4.277	1.00	0.00	H
ATOM	689	1HB LEU A	49150.737	6.742	-3.801	1.00	0.00	H
ATOM	690	2HB LEU A	49150.447	5.027	-4.027	1.00	0.00	H
ATOM	691	HG LEU A	49149.662	6.996	-6.150	1.00	0.00	H
ATOM	692	1HD1 LEU A	49151.753	7.225	-6.966	1.00	0.00	H
ATOM	693	2HD1 LEU A	49152.259	5.626	-6.419	1.00	0.00	H
ATOM	694	3HD1 LEU A	49152.202	6.971	-5.280	1.00	0.00	H
ATOM	695	1HD2 LEU A	49150.382	4.846	-7.477	1.00	0.00	H
ATOM	696	2HD2 LEU A	49148.792	4.955	-6.722	1.00	0.00	H
ATOM	697	3HD2 LEU A	49150.085	4.056	-5.929	1.00	0.00	H
ATOM	698	N ALA A	50147.792	5.012	-1.868	1.00	0.00	N
ATOM	699	CA ALA A	50147.655	4.694	-0.455	1.00	0.00	C

ATOM	700	C	ALA A	50148.603	3.569	-0.052	1.00	0.00	C
ATOM	701	O	ALA A	50148.470	2.437	-0.516	1.00	0.00	O
ATOM	702	CB	ALA A	50146.217	4.316	-0.134	1.00	0.00	C
ATOM	703	H	ALA A	50147.254	4.523	-2.525	1.00	0.00	H
ATOM	704	HA	ALA A	50147.904	5.581	0.109	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.127	3.241	-0.091	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.563	4.701	-0.904	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.936	4.740	0.818	1.00	0.00	H
ATOM	708	N	GLY A	51149.560	3.889	0.812	1.00	0.00	N
ATOM	709	CA	GLY A	51150.516	2.895	1.261	1.00	0.00	C
ATOM	710	C	GLY A	51149.875	1.819	2.115	1.00	0.00	C
ATOM	711	O	GLY A	51149.355	2.100	3.194	1.00	0.00	O
ATOM	712	H	GLY A	51149.617	4.807	1.148	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.970	2.431	0.398	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.285	3.386	1.839	1.00	0.00	H
ATOM	715	N	LEU A	52149.911	0.582	1.630	1.00	0.00	N
ATOM	716	CA	LEU A	52149.328	-0.540	2.356	1.00	0.00	C
ATOM	717	C	LEU A	52150.414	-1.411	2.976	1.00	0.00	C
ATOM	718	O	LEU A	52151.413	-1.731	2.329	1.00	0.00	O
ATOM	719	CB	LEU A	52148.453	-1.379	1.423	1.00	0.00	C
ATOM	720	CG	LEU A	52147.160	-0.702	0.966	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.473	-1.534	-0.106	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.229	-0.481	2.150	1.00	0.00	C
ATOM	723	H	LEU A	52150.339	0.420	0.764	1.00	0.00	H
ATOM	724	HA	LEU A	52148.712	-0.137	3.146	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.035	-1.628	0.547	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.193	-2.294	1.934	1.00	0.00	H

ATOM	727	HG	LEU A	52147.396	0.262	0.541	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.208	-2.133	-0.621	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.985	-0.878	-0.812	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.739	-2.179	0.353	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.303	-0.046	1.804	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.698	0.185	2.857	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.025	-1.428	2.628	1.00	0.00	H
ATOM	734	N	GLU A	53150.214	-1.793	4.232	1.00	0.00	N
ATOM	735	CA	GLU A	53151.177	-2.629	4.941	1.00	0.00	C
ATOM	736	C	GLU A	53150.694	-4.075	5.012	1.00	0.00	C
ATOM	737	O	GLU A	53149.750	-4.389	5.735	1.00	0.00	O
ATOM	738	CB	GLU A	53151.412	-2.087	6.352	1.00	0.00	C
ATOM	739	CG	GLU A	53152.429	-2.889	7.149	1.00	0.00	C
ATOM	740	CD	GLU A	53151.911	-3.295	8.516	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.344	-4.351	9.024	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.074	-2.557	9.077	1.00	0.00	O
ATOM	743	H	GLU A	53149.400	-1.507	4.695	1.00	0.00	H
ATOM	744	HA	GLU A	53152.107	-2.599	4.393	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.765	-1.069	6.280	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.475	-2.097	6.889	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.678	-3.782	6.597	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.317	-2.289	7.282	1.00	0.00	H
ATOM	749	N	LEU A	54151.348	-4.948	4.254	1.00	0.00	N
ATOM	750	CA	LEU A	54150.986	-6.361	4.232	1.00	0.00	C
ATOM	751	C	LEU A	54151.279	-7.020	5.575	1.00	0.00	C
ATOM	752	O	LEU A	54152.360	-6.849	6.139	1.00	0.00	O
ATOM	753	CB	LEU A	54151.745	-7.085	3.118	1.00	0.00	C

ATOM	754	CG	LEU A	54151.619	-6.449	1.731	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.797	-6.845	0.855	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.307	-6.853	1.077	1.00	0.00	C
ATOM	757	H	LEU A	54152.093	-4.637	3.699	1.00	0.00	H
ATOM	758	HA	LEU A	54149.926	-6.427	4.034	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.791	-7.115	3.384	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.376	-8.098	3.058	1.00	0.00	H
ATOM	761	HG	LEU A	54151.627	-5.374	1.834	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.623	-6.171	1.034	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.507	-6.790	-0.184	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.100	-7.855	1.091	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.987	-7.807	1.472	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.446	-6.933	0.010	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.556	-6.106	1.288	1.00	0.00	H
ATOM	768	N	GLU A	55150.309	-7.774	6.083	1.00	0.00	N
ATOM	769	CA	GLU A	55150.462	-8.459	7.360	1.00	0.00	C
ATOM	770	C	GLU A	55151.571	-9.504	7.289	1.00	0.00	C
ATOM	771	O	GLU A	55152.265	-9.755	8.274	1.00	0.00	O
ATOM	772	CB	GLU A	55149.146	-9.124	7.768	1.00	0.00	C
ATOM	773	CG	GLU A	55148.103	-8.144	8.281	1.00	0.00	C
ATOM	774	CD	GLU A	55147.157	-8.774	9.285	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.950	-8.455	9.243	1.00	0.00	O
ATOM	776	OE2	GLU A	55147.622	-9.586	10.112	1.00	0.00	O
ATOM	777	H	GLU A	55149.470	-7.872	5.586	1.00	0.00	H
ATOM	778	HA	GLU A	55150.727	-7.721	8.102	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.734	-9.637	6.911	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.346	-9.845	8.546	1.00	0.00	H

ATOM	781	1HG	GLU A	55148.608	-7.317	8.757	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.527	-7.780	7.444	1.00	0.00	H
ATOM	783	N	ASP A	56151.732	-10.111	6.118	1.00	0.00	N
ATOM	784	CA	ASP A	56152.757	-11.128	5.919	1.00	0.00	C
ATOM	785	C	ASP A	56154.003	-10.528	5.278	1.00	0.00	C
ATOM	786	O	ASP A	56153.911	-9.733	4.342	1.00	0.00	O
ATOM	787	CB	ASP A	56152.217	-12.262	5.046	1.00	0.00	C
ATOM	788	CG	ASP A	56151.588	-13.373	5.864	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.467	-14.501	5.341	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.216	-13.115	7.028	1.00	0.00	O
ATOM	791	H	ASP A	56151.148	-9.868	5.370	1.00	0.00	H
ATOM	792	HA	ASP A	56153.021	-11.526	6.887	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.468	-11.868	4.375	1.00	0.00	H
ATOM	794	2HB	ASP A	56153.028	-12.681	4.467	1.00	0.00	H
ATOM	795	N	GLU A	57155.169	-10.913	5.787	1.00	0.00	N
ATOM	796	CA	GLU A	57156.435	-10.413	5.264	1.00	0.00	C
ATOM	797	C	GLU A	57156.757	-11.051	3.916	1.00	0.00	C
ATOM	798	O	GLU A	57157.071	-12.238	3.840	1.00	0.00	O
ATOM	799	CB	GLU A	57157.567	-10.690	6.256	1.00	0.00	C
ATOM	800	CG	GLU A	57157.459	-9.886	7.541	1.00	0.00	C
ATOM	801	CD	GLU A	57158.779	-9.793	8.281	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.329	-10.852	8.651	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.263	-8.661	8.493	1.00	0.00	O
ATOM	804	H	GLU A	57155.178	-11.550	6.532	1.00	0.00	H
ATOM	805	HA	GLU A	57156.340	-9.346	5.130	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.556	-11.740	6.512	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.509	-10.453	5.785	1.00	0.00	H

ATOM	808	IHG	GLU A	57157.129	-8.886	7.299	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.733	-10.357	8.187	1.00	0.00	H
ATOM	810	N	CYS A	58156.675	-10.254	2.856	1.00	0.00	N
ATOM	811	CA	CYS A	58156.958	-10.741	1.511	1.00	0.00	C
ATOM	812	C	CYS A	58158.320	-10.252	1.030	1.00	0.00	C
ATOM	813	O	CYS A	58158.642	-9.070	1.145	1.00	0.00	O
ATOM	814	CB	CYS A	58155.867	-10.285	0.541	1.00	0.00	C
ATOM	815	SG	CYS A	58154.348	-11.261	0.627	1.00	0.00	S
ATOM	816	H	CYS A	58156.419	-9.317	2.981	1.00	0.00	H
ATOM	817	HA	CYS A	58156.968	-11.820	1.545	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.610	-9.259	0.757	1.00	0.00	H
ATOM	819	2HB	CYS A	58156.245	-10.350	-0.469	1.00	0.00	H
ATOM	820	HG	CYS A	58153.708	-10.768	1.144	1.00	0.00	H
ATOM	821	N	ALA A	59159.116	-11.169	0.490	1.00	0.00	N
ATOM	822	CA	ALA A	59160.443	-10.831	-0.010	1.00	0.00	C
ATOM	823	C	ALA A	59160.355	-9.963	-1.260	1.00	0.00	C
ATOM	824	O	ALA A	59159.723	-10.342	-2.247	1.00	0.00	O
ATOM	825	CB	ALA A	59161.238	-12.096	-0.297	1.00	0.00	C
ATOM	826	H	ALA A	59158.804	-12.096	0.426	1.00	0.00	H
ATOM	827	HA	ALA A	59160.959	-10.278	0.763	1.00	0.00	H
ATOM	828	1HB	ALA A	59162.273	-11.939	-0.034	1.00	0.00	H
ATOM	829	2HB	ALA A	59161.165	-12.335	-1.348	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.838	-12.912	0.286	1.00	0.00	H
ATOM	831	N	GLY A	60160.991	-8.797	-1.212	1.00	0.00	N
ATOM	832	CA	GLY A	60160.970	-7.894	-2.347	1.00	0.00	C
ATOM	833	C	GLY A	60160.116	-6.667	-2.097	1.00	0.00	C
ATOM	834	O	GLY A	60159.562	-6.088	-3.032	1.00	0.00	O

ATOM	835	H	GLY A	60161.478	-8.549	-0.399	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.982	-7.578	-2.559	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.581	-8.421	-3.206	1.00	0.00	H
ATOM	838	N	CYS A	61160.011	-6.269	-0.834	1.00	0.00	N
ATOM	839	CA	CYS A	61159.219	-5.102	-0.463	1.00	0.00	C
ATOM	840	C	CYS A	61160.044	-4.127	0.371	1.00	0.00	C
ATOM	841	O	CYS A	61161.192	-4.408	0.718	1.00	0.00	O
ATOM	842	CB	CYS A	61157.976	-5.532	0.318	1.00	0.00	C
ATOM	843	SG	CYS A	61156.886	-6.654	-0.588	1.00	0.00	S
ATOM	844	H	CYS A	61160.478	-6.771	-0.134	1.00	0.00	H
ATOM	845	HA	CYS A	61158.910	-4.609	-1.372	1.00	0.00	H
ATOM	846	1HB	CYS A	61158.284	-6.034	1.223	1.00	0.00	H
ATOM	847	2HB	CYS A	61157.402	-4.654	0.578	1.00	0.00	H
ATOM	848	HG	CYS A	61156.192	-6.941	0.010	1.00	0.00	H
ATOM	849	N	THR A	62159.453	-2.980	0.688	1.00	0.00	N
ATOM	850	CA	THR A	62160.133	-1.963	1.481	1.00	0.00	C
ATOM	851	C	THR A	62159.551	-1.891	2.889	1.00	0.00	C
ATOM	852	O	THR A	62158.550	-2.540	3.191	1.00	0.00	O
ATOM	853	CB	THR A	62160.022	-0.597	0.802	1.00	0.00	C
ATOM	854	OG1	THR A	62158.691	-0.355	0.380	1.00	0.00	O
ATOM	855	CG2	THR A	62160.918	-0.457	-0.410	1.00	0.00	C
ATOM	856	H	THR A	62158.537	-2.814	0.383	1.00	0.00	H
ATOM	857	HA	THR A	62161.175	-2.237	1.548	1.00	0.00	H
ATOM	858	HB	THR A	62160.299	0.170	1.509	1.00	0.00	H
ATOM	859	HG1	THR A	62158.468	-0.950	-0.338	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.948	-0.395	-0.089	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.655	0.440	-0.951	1.00	0.00	H

ATOM	862	3HG2	THR	A	62160.793	-1.315	-1.052	1.00	0.00	H
ATOM	863	N	ASP	A	63160.186	-1.098	3.746	1.00	0.00	N
ATOM	864	CA	ASP	A	63159.731	-0.942	5.124	1.00	0.00	C
ATOM	865	C	ASP	A	63158.970	0.368	5.299	1.00	0.00	C
ATOM	866	O	ASP	A	63158.997	0.975	6.370	1.00	0.00	O
ATOM	867	CB	ASP	A	63160.920	-0.987	6.084	1.00	0.00	C
ATOM	868	CG	ASP	A	63162.000	0.012	5.714	1.00	0.00	C
ATOM	869	OD1	ASP	A	63161.659	1.181	5.440	1.00	0.00	O
ATOM	870	OD2	ASP	A	63163.187	-0.376	5.700	1.00	0.00	O
ATOM	871	H	ASP	A	63160.979	-0.607	3.446	1.00	0.00	H
ATOM	872	HA	ASP	A	63159.067	-1.762	5.348	1.00	0.00	H
ATOM	873	1HB	ASP	A	63160.577	-0.765	7.083	1.00	0.00	H
ATOM	874	2HB	ASP	A	63161.351	-1.977	6.068	1.00	0.00	H
ATOM	875	N	GLY	A	64158.292	0.798	4.240	1.00	0.00	N
ATOM	876	CA	GLY	A	64157.532	2.035	4.298	1.00	0.00	C
ATOM	877	C	GLY	A	64158.158	3.138	3.469	1.00	0.00	C
ATOM	878	O	GLY	A	64158.231	4.287	3.907	1.00	0.00	O
ATOM	879	H	GLY	A	64158.307	0.274	3.413	1.00	0.00	H
ATOM	880	1HA	GLY	A	64156.533	1.848	3.933	1.00	0.00	H
ATOM	881	2HA	GLY	A	64157.473	2.360	5.326	1.00	0.00	H
ATOM	882	N	THR	A	65158.611	2.791	2.269	1.00	0.00	N
ATOM	883	CA	THR	A	65159.233	3.761	1.376	1.00	0.00	C
ATOM	884	C	THR	A	65158.795	3.533	-0.066	1.00	0.00	C
ATOM	885	O	THR	A	65158.999	2.456	-0.625	1.00	0.00	O
ATOM	886	CB	THR	A	65160.758	3.673	1.477	1.00	0.00	C
ATOM	887	OG1	THR	A	65161.181	2.322	1.501	1.00	0.00	O
ATOM	888	CG2	THR	A	65161.315	4.351	2.709	1.00	0.00	C

ATOM	889	H	THR A	65158.524	1.860	1.976	1.00	0.00	H
ATOM	890	HA	THR A	65158.918	4.746	1.685	1.00	0.00	H
ATOM	891	HB	THR A	65161.193	4.151	0.611	1.00	0.00	H
ATOM	892	HG1	THR A	65160.896	1.911	2.320	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.264	3.904	2.967	1.00	0.00	H
ATOM	894	2HG2	THR A	65160.625	4.230	3.531	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.457	5.403	2.509	1.00	0.00	H
ATOM	896	N	PHE A	66158.192	4.556	-0.665	1.00	0.00	N
ATOM	897	CA	PHE A	66157.725	4.467	-2.044	1.00	0.00	C
ATOM	898	C	PHE A	66158.660	5.221	-2.983	1.00	0.00	C
ATOM	899	O	PHE A	66158.855	6.429	-2.843	1.00	0.00	O
ATOM	900	CB	PHE A	66156.306	5.025	-2.160	1.00	0.00	C
ATOM	901	CG	PHE A	66155.651	4.726	-3.479	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.476	3.417	-3.900	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.211	5.754	-4.297	1.00	0.00	C
ATOM	904	CE1	PHE A	66154.874	3.138	-5.112	1.00	0.00	C
ATOM	905	CE2	PHE A	66154.608	5.482	-5.511	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.439	4.173	-5.918	1.00	0.00	C
ATOM	907	H	PHE A	66158.059	5.390	-0.167	1.00	0.00	H
ATOM	908	HA	PHE A	66157.717	3.424	-2.324	1.00	0.00	H
ATOM	909	1HB	PHE A	66155.693	4.596	-1.381	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.337	6.098	-2.039	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.815	2.609	-3.269	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.342	6.777	-3.979	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.745	2.115	-5.429	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.269	6.291	-6.139	1.00	0.00	H
ATOM	915	HZ	PHE A	66153.969	3.957	-6.867	1.00	0.00	H

ATOM	916	N	ARG A	67159.236	4.503	-3.941	1.00	0.00	N
ATOM	917	CA	ARG A	67160.150	5.105	-4.903	1.00	0.00	C
ATOM	918	C	ARG A	67161.354	5.721	-4.197	1.00	0.00	C
ATOM	919	O	ARG A	67161.911	6.720	-4.654	1.00	0.00	O
ATOM	920	CB	ARG A	67159.427	6.171	-5.728	1.00	0.00	C
ATOM	921	CG	ARG A	67158.093	5.706	-6.288	1.00	0.00	C
ATOM	922	CD	ARG A	67158.260	5.031	-7.639	1.00	0.00	C
ATOM	923	NE	ARG A	67158.418	3.585	-7.514	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.263	2.732	-8.524	1.00	0.00	C
ATOM	925	NH1	ARG A	67157.948	3.175	-9.734	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.425	1.431	-8.324	1.00	0.00	N
ATOM	927	H	ARG A	67159.042	3.544	-4.001	1.00	0.00	H
ATOM	928	HA	ARG A	67160.497	4.325	-5.564	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.250	7.034	-5.104	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.059	6.460	-6.555	1.00	0.00	H
ATOM	931	1HG	ARG A	67157.650	5.003	-5.598	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.443	6.562	-6.399	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.388	5.238	-8.241	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.135	5.440	-8.125	1.00	0.00	H
ATOM	935	HE	ARG A	67158.653	3.231	-6.631	1.00	0.00	H
ATOM	936	1HH1	ARG A	67157.826	4.156	-9.892	1.00	0.00	H
ATOM	937	2HH1	ARG A	67157.834	2.530	-10.489	1.00	0.00	H
ATOM	938	1HH2	ARG A	67158.663	1.091	-7.413	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.308	0.789	-9.082	1.00	0.00	H
ATOM	940	N	GLY A	68161.749	5.121	-3.080	1.00	0.00	N
ATOM	941	CA	GLY A	68162.884	5.624	-2.328	1.00	0.00	C
ATOM	942	C	GLY A	68162.519	6.802	-1.446	1.00	0.00	C

ATOM	943	O	GLY A	68163.364	7.644	-1.143	1.00	0.00	O
ATOM	944	H	GLY A	68161.268	4.328	-2.763	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.271	4.829	-1.708	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.652	5.931	-3.021	1.00	0.00	H
ATOM	947	N	THR A	69161.257	6.861	-1.033	1.00	0.00	N
ATOM	948	CA	THR A	69160.782	7.945	-0.180	1.00	0.00	C
ATOM	949	C	THR A	69159.945	7.403	0.975	1.00	0.00	C
ATOM	950	O	THR A	69158.848	6.885	0.769	1.00	0.00	O
ATOM	951	CB	THR A	69159.959	8.941	-0.998	1.00	0.00	C
ATOM	952	OG1	THR A	69160.631	9.282	-2.197	1.00	0.00	O
ATOM	953	CG2	THR A	69159.663	10.226	-0.255	1.00	0.00	C
ATOM	954	H	THR A	69160.630	6.160	-1.307	1.00	0.00	H
ATOM	955	HA	THR A	69161.646	8.451	0.223	1.00	0.00	H
ATOM	956	HB	THR A	69159.014	8.483	-1.257	1.00	0.00	H
ATOM	957	HG1	THR A	69160.053	9.815	-2.748	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.554	10.015	0.799	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.749	10.658	-0.634	1.00	0.00	H
ATOM	960	3HG2	THR A	69160.477	10.920	-0.401	1.00	0.00	H
ATOM	961	N	ARG A	70160.472	7.526	2.189	1.00	0.00	N
ATOM	962	CA	ARG A	70159.773	7.048	3.376	1.00	0.00	C
ATOM	963	C	ARG A	70158.628	7.985	3.747	1.00	0.00	C
ATOM	964	O	ARG A	70158.820	9.195	3.876	1.00	0.00	O
ATOM	965	CB	ARG A	70160.745	6.923	4.551	1.00	0.00	C
ATOM	966	CG	ARG A	70160.211	6.076	5.694	1.00	0.00	C
ATOM	967	CD	ARG A	70160.766	6.535	7.033	1.00	0.00	C
ATOM	968	NE	ARG A	70162.223	6.642	7.014	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.971	6.784	8.106	1.00	0.00	C

ATOM	970	NH1	ARG A	70162.403	6.833	9.305	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.289	6.874	8.000	1.00	0.00	N
ATOM	972	H	ARG A	70161.351	7.948	2.289	1.00	0.00	H
ATOM	973	HA	ARG A	70159.366	6.074	3.151	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.662	6.474	4.198	1.00	0.00	H
ATOM	975	2HB	ARG A	70160.961	7.909	4.932	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.134	6.157	5.717	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.493	5.047	5.530	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.346	7.500	7.271	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.478	5.820	7.791	1.00	0.00	H
ATOM	980	HE	ARG A	70162.667	6.609	6.141	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.410	6.764	9.393	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.971	6.939	10.122	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.722	6.837	7.098	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.851	6.981	8.820	1.00	0.00	H
ATOM	985	N	TYR A	71157.438	7.420	3.917	1.00	0.00	N
ATOM	986	CA	TYR A	71156.262	8.204	4.273	1.00	0.00	C
ATOM	987	C	TYR A	71155.798	7.879	5.689	1.00	0.00	C
ATOM	988	O	TYR A	71155.340	8.757	6.421	1.00	0.00	O
ATOM	989	CB	TYR A	71155.128	7.942	3.280	1.00	0.00	C
ATOM	990	CG	TYR A	71155.340	8.592	1.932	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.142	7.880	0.756	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.738	9.920	1.834	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.336	8.471	-0.478	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.933	10.518	0.604	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.731	9.790	-0.549	1.00	0.00	C
ATOM	996	OH	TYR A	71155.924	10.382	-1.776	1.00	0.00	O

ATOM	997	H	TYR A	71157.349	6.451	3.800	1.00	0.00	H
ATOM	998	HA	TYR A	71156.534	9.249	4.227	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.035	6.879	3.123	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.205	8.323	3.691	1.00	0.00	H
ATOM	1001	HD1	TYR A	71154.832	6.846	0.815	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.897	10.489	2.739	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.177	7.899	-1.380	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.243	11.552	0.549	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.751	10.868	-1.770	1.00	0.00	H
ATOM	1006	N	PHE A	72155.919	6.611	6.069	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.513	6.169	7.397	1.00	0.00	C
ATOM	1008	C	PHE A	72156.513	5.169	7.968	1.00	0.00	C
ATOM	1009	O	PHE A	72157.471	4.783	7.299	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.119	5.541	7.343	1.00	0.00	C
ATOM	1011	CG	PHE A	72154.009	4.406	6.366	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.735	4.650	5.030	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.181	3.096	6.783	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.633	3.608	4.128	1.00	0.00	C
ATOM	1015	CE2	PHE A	72154.081	2.050	5.886	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.806	2.306	4.557	1.00	0.00	C
ATOM	1017	H	PHE A	72156.291	5.957	5.441	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.483	7.036	8.040	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.865	5.162	8.322	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.401	6.297	7.059	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.599	5.667	4.694	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.396	2.895	7.823	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.418	3.810	3.089	1.00	0.00	H

ATOM	1024	HE2	PHE A	72154.217	1.033	6.224	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.728	1.490	3.854	1.00	0.00	H
ATOM	1026	N	THR A	73156.282	4.752	9.209	1.00	0.00	N
ATOM	1027	CA	THR A	73157.162	3.795	9.870	1.00	0.00	C
ATOM	1028	C	THR A	73156.453	2.463	10.088	1.00	0.00	C
ATOM	1029	O	THR A	73155.491	2.378	10.851	1.00	0.00	O
ATOM	1030	CB	THR A	73157.643	4.355	11.210	1.00	0.00	C
ATOM	1031	OG1	THR A	73156.583	5.000	11.894	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.773	5.352	11.071	1.00	0.00	C
ATOM	1033	H	THR A	73155.502	5.096	9.691	1.00	0.00	H
ATOM	1034	HA	THR A	73158.017	3.634	9.230	1.00	0.00	H
ATOM	1035	HB	THR A	73157.996	3.538	11.823	1.00	0.00	H
ATOM	1036	HG1	THR A	73156.693	4.881	12.840	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.585	6.200	11.713	1.00	0.00	H
ATOM	1038	2HG2	THR A	73158.837	5.683	10.046	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.703	4.884	11.357	1.00	0.00	H
ATOM	1040	N	CYS A	74156.934	1.425	9.411	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.346	0.096	9.531	1.00	0.00	C
ATOM	1042	C	CYS A	74157.427	-0.980	9.525	1.00	0.00	C
ATOM	1043	O	CYS A	74158.610	-0.684	9.362	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.357	-0.152	8.390	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.661	0.351	8.762	1.00	0.00	S
ATOM	1046	H	CYS A	74157.703	1.556	8.819	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.815	0.052	10.470	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.679	0.399	7.519	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.344	-1.206	8.157	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.664	1.294	8.942	1.00	0.00	H

ATOM	1051	N	ALA A	75157.011	-2.229	9.704	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.944	-3.350	9.720	1.00	0.00	C
ATOM	1053	C	ALA A	75158.702	-3.452	8.401	1.00	0.00	C
ATOM	1054	O	ALA A	75158.480	-2.661	7.484	1.00	0.00	O
ATOM	1055	CB	ALA A	75157.205	-4.647	10.008	1.00	0.00	C
ATOM	1056	H	ALA A	75156.055	-2.403	9.830	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.654	-3.182	10.518	1.00	0.00	H
ATOM	1058	1HB	ALA A	75157.023	-5.171	9.081	1.00	0.00	H
ATOM	1059	2HB	ALA A	75156.262	-4.426	10.487	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.804	-5.266	10.659	1.00	0.00	H
ATOM	1061	N	LEU A	76159.596	-4.431	8.312	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.387	-4.637	7.104	1.00	0.00	C
ATOM	1063	C	LEU A	76159.716	-5.649	6.180	1.00	0.00	C
ATOM	1064	O	LEU A	76159.147	-6.640	6.638	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.794	-5.115	7.466	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.730	-4.029	7.999	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.737	-4.623	8.971	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.442	-3.330	6.851	1.00	0.00	C
ATOM	1069	H	LEU A	76159.727	-5.029	9.076	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.459	-3.690	6.589	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.707	-5.887	8.216	1.00	0.00	H
ATOM	1072	2HB	LEU A	76162.244	-5.544	6.583	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.148	-3.291	8.533	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.281	-5.419	8.485	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.217	-5.016	9.833	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.429	-3.856	9.287	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76162.828	-3.375	5.965	1.00	0.00	H

ATOM	1078	2HD2	LEU A	76164.385	-3.821	6.660	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.621	-2.297	7.114	1.00	0.00	H
ATOM	1080	N	LYS A	77159.786	-5.390	4.878	1.00	0.00	N
ATOM	1081	CA	LYS A	77159.185	-6.279	3.890	1.00	0.00	C
ATOM	1082	C	LYS A	77157.676	-6.375	4.090	1.00	0.00	C
ATOM	1083	O	LYS A	77157.083	-7.440	3.918	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.812	-7.672	3.975	1.00	0.00	C
ATOM	1085	CG	LYS A	77161.303	-7.687	3.676	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.578	-7.419	2.206	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.960	-6.821	1.998	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.955	-7.851	1.590	1.00	0.00	N
ATOM	1089	H	LYS A	77160.252	-4.584	4.575	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.380	-5.865	2.911	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.663	-8.060	4.973	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.318	-8.321	3.268	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.786	-6.924	4.268	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.701	-8.656	3.938	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.514	-8.349	1.662	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.836	-6.729	1.830	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.900	-6.067	1.227	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.283	-6.365	2.922	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77164.769	-7.397	1.128	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.523	-8.522	0.925	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.290	-8.374	2.425	1.00	0.00	H
ATOM	1102	N	LYS A	78157.060	-5.255	4.456	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.619	-5.213	4.681	1.00	0.00	C
ATOM	1104	C	LYS A	78155.047	-3.853	4.293	1.00	0.00	C

- 1155 -

ATOM	1105	O	LYS A	78154.151	-3.333	4.959	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.301	-5.516	6.146	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.852	-6.848	6.626	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.565	-7.071	8.102	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.387	-8.009	8.306	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.519	-7.573	9.435	1.00	0.00	N
ATOM	1111	H	LYS A	78157.587	-4.437	4.578	1.00	0.00	H
ATOM	1112	HA	LYS A	78155.166	-5.971	4.059	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.721	-4.734	6.762	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.228	-5.526	6.275	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.393	-7.643	6.056	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.921	-6.862	6.469	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.439	-7.503	8.567	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.341	-6.121	8.562	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.799	-8.031	7.401	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.763	-9.000	8.513	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78154.104	-7.298	10.250	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.889	-8.348	9.722	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.940	-6.759	9.147	1.00	0.00	H
ATOM	1124	N	ALA A	79155.570	-3.282	3.214	1.00	0.00	N
ATOM	1125	CA	ALA A	79155.112	-1.982	2.739	1.00	0.00	C
ATOM	1126	C	ALA A	79154.892	-1.996	1.230	1.00	0.00	C
ATOM	1127	O	ALA A	79155.848	-1.961	0.454	1.00	0.00	O
ATOM	1128	CB	ALA A	79156.109	-0.899	3.119	1.00	0.00	C
ATOM	1129	H	ALA A	79156.281	-3.746	2.724	1.00	0.00	H
ATOM	1130	HA	ALA A	79154.173	-1.762	3.227	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.578	0.005	3.377	1.00	0.00	H

ATOM	1132	2HB	ALA A	79156.767	-0.706	2.285	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.692	-1.229	3.967	1.00	0.00	H
ATOM	1134	N	LEU A	80153.630	-2.047	0.820	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.285	-2.065	-0.597	1.00	0.00	C
ATOM	1136	C	LEU A	80152.294	-0.953	-0.929	1.00	0.00	C
ATOM	1137	O	LEU A	80151.145	-0.979	-0.489	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.694	-3.423	-0.982	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.225	-3.537	-2.434	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.416	-3.646	-3.372	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.301	-4.734	-2.601	1.00	0.00	C
ATOM	1142	H	LEU A	80152.912	-2.073	1.487	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.191	-1.903	-1.160	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.444	-4.180	-0.806	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.850	-3.621	-0.338	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.673	-2.647	-2.697	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.124	-4.177	-4.265	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80154.215	-4.182	-2.880	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.757	-2.656	-3.637	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.434	-5.156	-3.587	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.276	-4.416	-2.480	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.538	-5.478	-1.856	1.00	0.00	H
ATOM	1153	N	PHE A	81152.748	0.022	-1.710	1.00	0.00	N
ATOM	1154	CA	PHE A	81151.901	1.143	-2.102	1.00	0.00	C
ATOM	1155	C	PHE A	81151.048	0.782	-3.314	1.00	0.00	C
ATOM	1156	O	PHE A	81151.438	-0.049	-4.134	1.00	0.00	O
ATOM	1157	CB	PHE A	81152.759	2.370	-2.415	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.604	2.823	-1.259	1.00	0.00	C

ATOM	1159	CD1 PHE A	81154.786	2.169	-0.951	1.00	0.00	C
ATOM	1160	CD2 PHE A	81153.216	3.902	-0.480	1.00	0.00	C
ATOM	1161	CE1 PHE A	81155.566	2.583	0.112	1.00	0.00	C
ATOM	1162	CE2 PHE A	81153.993	4.320	0.584	1.00	0.00	C
ATOM	1163	CZ PHE A	81155.169	3.660	0.881	1.00	0.00	C
ATOM	1164	H PHE A	81153.673	-0.013	-2.030	1.00	0.00	H
ATOM	1165	HA PHE A	81151.249	1.371	-1.273	1.00	0.00	H
ATOM	1166	1HB PHE A	81153.418	2.141	-3.239	1.00	0.00	H
ATOM	1167	2HB PHE A	81152.112	3.190	-2.696	1.00	0.00	H
ATOM	1168	HD1 PHE A	81155.098	1.328	-1.552	1.00	0.00	H
ATOM	1169	HD2 PHE A	81152.297	4.418	-0.711	1.00	0.00	H
ATOM	1170	HE1 PHE A	81156.485	2.064	0.342	1.00	0.00	H
ATOM	1171	HE2 PHE A	81153.679	5.162	1.184	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.777	3.984	1.712	1.00	0.00	H
ATOM	1173	N VAL A	82149.883	1.411	-3.419	1.00	0.00	N
ATOM	1174	CA VAL A	82148.974	1.155	-4.530	1.00	0.00	C
ATOM	1175	C VAL A	82148.048	2.342	-4.768	1.00	0.00	C
ATOM	1176	O VAL A	82147.948	3.242	-3.933	1.00	0.00	O
ATOM	1177	CB VAL A	82148.123	-0.103	-4.283	1.00	0.00	C
ATOM	1178	CG1 VAL A	82148.984	-1.355	-4.359	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.417	-0.014	-2.939	1.00	0.00	C
ATOM	1180	H VAL A	82149.627	2.063	-2.734	1.00	0.00	H
ATOM	1181	HA VAL A	82149.569	0.993	-5.418	1.00	0.00	H
ATOM	1182	HB VAL A	82147.371	-0.164	-5.056	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82148.356	-2.230	-4.279	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82149.699	-1.350	-3.550	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82149.507	-1.374	-5.303	1.00	0.00	H

ATOM	1186	1HG2 VAL A	82146.420	-0.420	-3.027	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82147.358	1.020	-2.631	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82147.971	-0.577	-2.202	1.00	0.00	H
ATOM	1189	N LYS A	83147.371	2.339	-5.912	1.00	0.00	N
ATOM	1190	CA LYS A	83146.452	3.416	-6.259	1.00	0.00	C
ATOM	1191	C LYS A	83145.229	3.405	-5.347	1.00	0.00	C
ATOM	1192	O LYS A	83144.472	2.436	-5.320	1.00	0.00	O
ATOM	1193	CB LYS A	83146.014	3.290	-7.719	1.00	0.00	C
ATOM	1194	CG LYS A	83147.174	3.228	-8.700	1.00	0.00	C
ATOM	1195	CD LYS A	83146.698	2.909	-10.108	1.00	0.00	C
ATOM	1196	CE LYS A	83147.699	3.373	-11.153	1.00	0.00	C
ATOM	1197	NZ LYS A	83148.688	2.311	-11.484	1.00	0.00	N
ATOM	1198	H LYS A	83147.493	1.594	-6.537	1.00	0.00	H
ATOM	1199	HA LYS A	83146.973	4.352	-6.129	1.00	0.00	H
ATOM	1200	1HB LYS A	83145.428	2.389	-7.831	1.00	0.00	H
ATOM	1201	2HB LYS A	83145.400	4.141	-7.974	1.00	0.00	H
ATOM	1202	1HG LYS A	83147.675	4.185	-8.709	1.00	0.00	H
ATOM	1203	2HG LYS A	83147.863	2.461	-8.379	1.00	0.00	H
ATOM	1204	1HD LYS A	83146.565	1.841	-10.198	1.00	0.00	H
ATOM	1205	2HD LYS A	83145.754	3.406	-10.279	1.00	0.00	H
ATOM	1206	1HE LYS A	83147.163	3.644	-12.051	1.00	0.00	H
ATOM	1207	2HE LYS A	83148.223	4.236	-10.772	1.00	0.00	H
ATOM	1208	1HZ LYS A	83149.555	2.443	-10.925	1.00	0.00	H
ATOM	1209	2HZ LYS A	83148.932	2.351	-12.494	1.00	0.00	H
ATOM	1210	3HZ LYS A	83148.291	1.373	-11.272	1.00	0.00	H
ATOM	1211	N LEU A	84145.046	4.491	-4.604	1.00	0.00	N
ATOM	1212	CA LEU A	84143.917	4.611	-3.690	1.00	0.00	C

ATOM	1213	C	LEU A	84142.593	4.485	-4.439	1.00	0.00	C
ATOM	1214	O	LEU A	84141.616	3.960	-3.906	1.00	0.00	O
ATOM	1215	CB	LEU A	84143.976	5.952	-2.954	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.795	6.237	-2.026	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.027	5.612	-0.659	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.568	7.736	-1.898	1.00	0.00	C
ATOM	1219	H	LEU A	84145.685	5.230	-4.673	1.00	0.00	H
ATOM	1220	HA	LEU A	84143.987	3.812	-2.969	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.883	5.976	-2.368	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.024	6.740	-3.691	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.900	5.798	-2.445	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.278	5.971	0.033	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.009	5.886	-0.300	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.959	4.538	-0.737	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.571	8.185	-2.880	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.357	8.169	-1.301	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.616	7.917	-1.422	1.00	0.00	H
ATOM	1230	N	LYS A	85142.571	4.970	-5.676	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.367	4.911	-6.496	1.00	0.00	C
ATOM	1232	C	LYS A	85140.977	3.466	-6.792	1.00	0.00	C
ATOM	1233	O	LYS A	85139.805	3.166	-7.025	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.580	5.672	-7.806	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.757	5.163	-8.623	1.00	0.00	C
ATOM	1236	CD	LYS A	85142.949	5.979	-9.891	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.423	6.163	-10.218	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.666	6.202	-11.685	1.00	0.00	N
ATOM	1239	H	LYS A	85143.382	5.377	-6.045	1.00	0.00	H

ATOM	1240	HA	LYS A	85140.567	5.381	-5.944	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.688	5.586	-8.409	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.751	6.714	-7.580	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.654	5.230	-8.025	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.577	4.132	-8.891	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.470	5.466	-10.712	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.496	6.949	-9.756	1.00	0.00	H
ATOM	1247	1HE	LYS A	85144.761	7.090	-9.781	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.978	5.341	-9.790	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.502	6.784	-11.894	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85143.843	6.608	-12.174	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.828	5.240	-12.047	1.00	0.00	H
ATOM	1252	N	SER A	86141.963	2.574	-6.781	1.00	0.00	N
ATOM	1253	CA	SER A	86141.717	1.161	-7.048	1.00	0.00	C
ATOM	1254	C	SER A	86141.727	0.352	-5.755	1.00	0.00	C
ATOM	1255	O	SER A	86142.103	-0.820	-5.748	1.00	0.00	O
ATOM	1256	CB	SER A	86142.770	0.614	-8.013	1.00	0.00	C
ATOM	1257	OG	SER A	86142.492	1.004	-9.347	1.00	0.00	O
ATOM	1258	H	SER A	86142.876	2.872	-6.589	1.00	0.00	H
ATOM	1259	HA	SER A	86140.744	1.075	-7.505	1.00	0.00	H
ATOM	1260	1HB	SER A	86143.742	0.994	-7.737	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.777	-0.465	-7.960	1.00	0.00	H
ATOM	1262	HG	SER A	86143.160	0.640	-9.932	1.00	0.00	H
ATOM	1263	N	CYS A	87141.314	0.986	-4.662	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.274	0.323	-3.363	1.00	0.00	C
ATOM	1265	C	CYS A	87139.839	0.184	-2.866	1.00	0.00	C,
ATOM	1266	O	CYS A	87139.033	1.103	-3.005	1.00	0.00	O

ATOM	1267	CB	CYS A	87142.106	1.104	-2.343	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.879	0.758	-2.417	1.00	0.00	S
ATOM	1269	H	CYS A	87141.026	1.920	-4.730	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.699	-0.663	-3.480	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.971	2.161	-2.515	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.763	0.860	-1.348	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.316	1.308	-1.762	1.00	0.00	H
ATOM	1274	N	ARG A	88139.529	-0.971	-2.288	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.189	-1.230	-1.771	1.00	0.00	C
ATOM	1276	C	ARG A	88138.203	-1.338	-0.247	1.00	0.00	C
ATOM	1277	O	ARG A	88139.164	-1.838	0.338	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.626	-2.516	-2.378	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.880	-2.295	-3.684	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.572	-3.069	-3.717	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.521	-2.338	-4.422	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.443	-2.247	-5.748	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.349	-2.838	-6.516	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.454	-1.563	-6.307	1.00	0.00	N
ATOM	1285	H	ARG A	88140.215	1.666	-2.207	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.559	-0.402	-2.056	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.441	-3.200	-2.564	1.00	0.00	H
ATOM	1288	2HB	ARG A	88136.945	-2.966	-1.670	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.667	-1.242	-3.792	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.503	-2.624	-4.502	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.738	-4.011	-4.216	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.251	-3.251	-2.702	1.00	0.00	H
ATOM	1293	HE	ARG A	88133.838	-1.891	-3.880	1.00	0.00	H

ATOM	1294	1HH1	ARG A	88136.097	-3.355	-6.101	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.283	-2.766	-7.511	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88132.768	-1.116	-5.732	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.394	-1.495	-7.303	1.00	0.00	H
ATOM	1298	N	PRO A	89137.132	-0.869	0.417	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.029	-0.917	1.879	1.00	0.00	C
ATOM	1300	C	PRO A	89137.248	-2.322	2.429	1.00	0.00	C
ATOM	1301	O	PRO A	89136.580	-3.271	2.017	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.596	-0.455	2.154	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.224	0.361	0.965	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.941	-0.257	-0.201	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.725	-0.237	2.347	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.952	-1.316	2.260	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.571	0.134	3.059	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.155	0.323	0.812	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.547	1.382	1.104	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.322	-1.007	-0.671	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.225	0.501	-0.915	1.00	0.00	H
ATOM	1312	N	ASP A	90138.186	-2.448	3.360	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.492	-3.738	3.967	1.00	0.00	C
ATOM	1314	C	ASP A	90137.860	-3.845	5.352	1.00	0.00	C
ATOM	1315	O	ASP A	90138.002	-2.945	6.180	1.00	0.00	O
ATOM	1316	CB	ASP A	90140.007	-3.930	4.071	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.412	-5.387	3.980	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.635	-6.185	3.415	1.00	0.00	O
ATOM	1319	OD2	ASP A	90141.507	-5.731	4.473	1.00	0.00	O
ATOM	1320	H	ASP A	90138.684	-1.654	3.648	1.00	0.00	H

ATOM	1321	HA	ASP A	90138.080	-4.510	3.335	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.488	-3.391	3.269	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.348	-3.539	5.017	1.00	0.00	H
ATOM	1324	N	SER A	91137.162	-4.947	5.597	1.00	0.00	N
ATOM	1325	CA	SER A	91136.510	-5.164	6.883	1.00	0.00	C
ATOM	1326	C	SER A	91137.456	-5.844	7.868	1.00	0.00	C
ATOM	1327	O	SER A	91137.984	-5.200	8.773	1.00	0.00	O
ATOM	1328	CB	SER A	91135.238	-5.998	6.703	1.00	0.00	C
ATOM	1329	OG	SER A	91134.270	-5.672	7.685	1.00	0.00	O
ATOM	1330	H	SER A	91137.082	-5.630	4.898	1.00	0.00	H
ATOM	1331	HA	SER A	91136.238	-4.197	7.280	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.819	-5.806	5.727	1.00	0.00	H
ATOM	1333	2HB	SER A	91135.480	-7.047	6.789	1.00	0.00	H
ATOM	1334	HG	SER A	91133.431	-5.484	7.259	1.00	0.00	H
ATOM	1335	N	ARG A	92137.670	-7.146	7.683	1.00	0.00	N
ATOM	1336	CA	ARG A	92138.557	-7.915	8.554	1.00	0.00	C
ATOM	1337	C	ARG A	92138.189	-7.730	10.027	1.00	0.00	C
ATOM	1338	O	ARG A	92137.454	-8.536	10.597	1.00	0.00	O
ATOM	1339	CB	ARG A	92140.015	-7.514	8.318	1.00	0.00	C
ATOM	1340	CG	ARG A	92140.706	-8.337	7.244	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.193	-7.986	5.858	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.038	-8.796	5.479	1.00	0.00	N
ATOM	1343	CZ	ARG A	92139.081	-10.115	5.305	1.00	0.00	C
ATOM	1344	NH1	ARG A	92140.220	-10.777	5.472	1.00	0.00	N
ATOM	1345	NH2	ARG A	92137.983	-10.774	4.961	1.00	0.00	N
ATOM	1346	H	ARG A	92137.224	-7.602	6.940	1.00	0.00	H
ATOM	1347	HA	ARG A	92138.439	-8.958	8.300	1.00	0.00	H

ATOM	1348	1HB	ARG A	92140.047	-6.475	8.021	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.563	-7.632	9.241	1.00	0.00	H
ATOM	1350	1HG	ARG A	92141.768	-8.144	7.283	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.522	-9.384	7.433	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.909	-6.945	5.846	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.986	-8.151	5.142	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.184	-8.333	5.350	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92141.051	-10.287	5.731	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92140.244	-11.769	5.340	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92137.123	-10.281	4.833	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92138.015	-11.765	4.829	1.00	0.00	H
ATOM	1359	N	PHE A	93138.703	-6.665	10.638	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.428	-6.378	12.040	1.00	0.00	C
ATOM	1361	C	PHE A	93137.150	-5.556	12.187	1.00	0.00	C
ATOM	1362	O	PHE A	93137.152	-4.489	12.803	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.607	-5.628	12.663	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.887	-6.415	12.657	1.00	0.00	C
ATOM	1365	CD1	PHE A	93141.605	-6.585	11.483	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.372	-6.984	13.823	1.00	0.00	C
ATOM	1367	CE1	PHE A	93142.783	-7.309	11.474	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.549	-7.708	13.820	1.00	0.00	C
ATOM	1369	CZ	PHE A	93143.255	-7.871	12.644	1.00	0.00	C
ATOM	1370	H	PHE A	93139.282	-6.057	10.132	1.00	0.00	H
ATOM	1371	HA	PHE A	93138.299	-7.319	12.553	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.776	-4.715	12.110	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.370	-5.385	13.689	1.00	0.00	H
ATOM	1374	HD1	PHE A	93141.236	-6.145	10.568	1.00	0.00	H

ATOM	1375	HD2 PHE A	93140.821	-6.857	14.743	1.00	0.00	H
ATOM	1376	HE1 PHE A	93143.333	-7.435	10.553	1.00	0.00	H
ATOM	1377	HE2 PHE A	93142.917	-8.146	14.736	1.00	0.00	H
ATOM	1378	HZ PHE A	93144.175	-8.437	12.639	1.00	0.00	H
ATOM	1379	N ALA A	94136.059	-6.059	11.619	1.00	0.00	N
ATOM	1380	CA ALA A	94134.776	-5.371	11.687	1.00	0.00	C
ATOM	1381	C ALA A	94133.976	-5.822	12.905	1.00	0.00	C
ATOM	1382	O ALA A	94133.857	-7.017	13.175	1.00	0.00	O
ATOM	1383	CB ALA A	94133.981	-5.610	10.413	1.00	0.00	C
ATOM	1384	H ALA A	94136.119	-6.913	11.142	1.00	0.00	H
ATOM	1385	HA ALA A	94134.970	-4.312	11.769	1.00	0.00	H
ATOM	1386	1HB ALA A	94132.932	-5.695	10.653	1.00	0.00	H
ATOM	1387	2HB ALA A	94134.318	-6.523	9.944	1.00	0.00	H
ATOM	1388	3HB ALA A	94134.130	-4.781	9.735	1.00	0.00	H
ATOM	1389	N SER A	95133.429	-4.857	13.636	1.00	0.00	N
ATOM	1390	CA SER A	95132.639	-5.153	14.825	1.00	0.00	C
ATOM	1391	C SER A	95131.161	-5.304	14.474	1.00	0.00	C
ATOM	1392	O SER A	95130.510	-4.343	14.065	1.00	0.00	O
ATOM	1393	CB SER A	95132.817	-4.050	15.870	1.00	0.00	C
ATOM	1394	OG SER A	95133.898	-4.340	16.739	1.00	0.00	O
ATOM	1395	H SER A	95133.559	-3.922	13.370	1.00	0.00	H
ATOM	1396	HA SER A	95132.996	-6.086	15.236	1.00	0.00	H
ATOM	1397	1HB SER A	95133.015	-3.113	15.372	1.00	0.00	H
ATOM	1398	2HB SER A	95131.914	-3.962	16.455	1.00	0.00	H
ATOM	1399	HG SER A	95133.792	-5.224	17.098	1.00	0.00	H
ATOM	1400	N LEU A	96130.641	-6.514	14.639	1.00	0.00	N
ATOM	1401	CA LEU A	96129.240	-6.792	14.341	1.00	0.00	C

ATOM	1402	C	LEU A	96128.444	-7.002	15.624	1.00	0.00	C
ATOM	1403	O	LEU A	96128.799	-7.835	16.458	1.00	0.00	O
ATOM	1404	CB	LEU A	96129.123	-8.027	13.446	1.00	0.00	C
ATOM	1405	CG	LEU A	96127.885	-8.062	12.548	1.00	0.00	C
ATOM	1406	CD1	LEU A	96128.176	-8.830	11.268	1.00	0.00	C
ATOM	1407	CD2	LEU A	96126.708	-8.679	13.288	1.00	0.00	C
ATOM	1408	H	LEU A	96131.211	-7.239	14.970	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.838	-5.938	13.816	1.00	0.00	H
ATOM	1410	1HB	LEU A	96130.000	-8.075	12.817	1.00	0.00	H
ATOM	1411	2HB	LEU A	96129.105	-8.903	14.077	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.617	-7.050	12.277	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96128.648	-9.770	11.512	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96128.834	-8.248	10.641	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.251	-9.018	10.744	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.780	-8.444	14.340	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.724	-9.751	13.157	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96125.786	-8.281	12.893	1.00	0.00	H
ATOM	1419	N	GLN A	97127.365	-6.241	15.777	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.519	-6.343	16.961	1.00	0.00	C
ATOM	1421	C	GLN A	97125.175	-6.983	16.615	1.00	0.00	C
ATOM	1422	O	GLN A	97124.550	-6.626	15.616	1.00	0.00	O
ATOM	1423	CB	GLN A	97126.298	-4.958	17.572	1.00	0.00	C
ATOM	1424	CG	GLN A	97127.318	-4.593	18.638	1.00	0.00	C
ATOM	1425	CD	GLN A	97128.360	-3.614	18.137	1.00	0.00	C
ATOM	1426	OE1	GLN A	97128.385	-2.453	18.544	1.00	0.00	O
ATOM	1427	NE2	GLN A	97129.229	-4.079	17.245	1.00	0.00	N
ATOM	1428	H	GLN A	97127.134	-5.593	15.078	1.00	0.00	H

ATOM	1429	HA	GLN A	97127.031	-6.965	17.678	1.00	0.00	H
ATOM	1430	1HB	GLN A	97126.350	-4.219	16.787	1.00	0.00	H
ATOM	1431	2HB	GLN A	97125.315	-4.928	18.019	1.00	0.00	H
ATOM	1432	1HG	GLN A	97126.801	-4.148	19.475	1.00	0.00	H
ATOM	1433	2HG	GLN A	97127.818	-5.494	18.963	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97129.148	-5.014	16.965	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97129.913	-3.466	16.903	1.00	0.00	H
ATOM	1436	N	PRO A	98124.707	-7.939	17.439	1.00	0.00	N
ATOM	1437	CA	PRO A	98123.429	-8.622	17.208	1.00	0.00	C
ATOM	1438	C	PRO A	98122.272	-7.643	17.039	1.00	0.00	C
ATOM	1439	O	PRO A	98121.635	-7.597	15.986	1.00	0.00	O
ATOM	1440	CB	PRO A	98123.236	-9.462	18.473	1.00	0.00	C
ATOM	1441	CG	PRO A	98124.612	-9.673	19.002	1.00	0.00	C
ATOM	1442	CD	PRO A	98125.383	-8.431	18.655	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.478	-9.270	16.345	1.00	0.00	H
ATOM	1444	1HB	PRO A	98122.621	-8.920	19.177	1.00	0.00	H
ATOM	1445	2HB	PRO A	98122.764	-10.398	18.218	1.00	0.00	H
ATOM	1446	1HG	PRO A	98124.578	-9.806	20.073	1.00	0.00	H
ATOM	1447	2HG	PRO A	98125.059	-10.535	18.530	1.00	0.00	H
ATOM	1448	1HD	PRO A	98125.314	-7.707	19.454	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.416	-8.672	18.451	1.00	0.00	H
ATOM	1450	N	SER A	99122.007	-6.862	18.082	1.00	0.00	N
ATOM	1451	CA	SER A	99120.927	-5.882	18.055	1.00	0.00	C
ATOM	1452	C	SER A	99119.571	-6.566	17.892	1.00	0.00	C
ATOM	1453	O	SER A	99118.839	-6.748	18.864	1.00	0.00	O
ATOM	1454	CB	SER A	99121.148	-4.874	16.924	1.00	0.00	C
ATOM	1455	OG	SER A	99120.024	-4.024	16.771	1.00	0.00	O

- 1168 -

ATOM	1456	H	SER A	99122.552	-6.947	18.892	1.00	0.00	H
ATOM	1457	HA	SER A	99120.937	-5.355	18.998	1.00	0.00	H
ATOM	1458	1HB	SER A	99122.013	-4.268	17.148	1.00	0.00	H
ATOM	1459	2HB	SER A	99121.311	-5.405	15.998	1.00	0.00	H
ATOM	1460	HG	SER A	99120.000	-3.392	17.492	1.00	0.00	H
ATOM	1461	N	GLY A	100119.245	-6.942	16.660	1.00	0.00	N
ATOM	1462	CA	GLY A	100117.979	-7.601	16.396	1.00	0.00	C
ATOM	1463	C	GLY A	100117.069	-6.778	15.502	1.00	0.00	C
ATOM	1464	O	GLY A	100117.227	-6.787	14.281	1.00	0.00	O
ATOM	1465	H	GLY A	100119.868	-6.771	15.924	1.00	0.00	H
ATOM	1466	1HA	GLY A	100118.174	-8.549	15.917	1.00	0.00	H
ATOM	1467	2HA	GLY A	100117.477	-7.782	17.335	1.00	0.00	H
ATOM	1468	N	PRO A	101116.100	-6.048	16.082	1.00	0.00	N
ATOM	1469	CA	PRO A	101115.170	-5.218	15.312	1.00	0.00	C
ATOM	1470	C	PRO A	101115.837	-3.968	14.751	1.00	0.00	C
ATOM	1471	O	PRO A	101116.518	-3.238	15.473	1.00	0.00	O
ATOM	1472	CB	PRO A	101114.103	-4.840	16.339	1.00	0.00	C
ATOM	1473	CG	PRO A	101114.812	-4.878	17.648	1.00	0.00	C
ATOM	1474	CD	PRO A	101115.837	-5.974	17.532	1.00	0.00	C
ATOM	1475	HA	PRO A	101114.716	-5.776	14.505	1.00	0.00	H
ATOM	1476	1HB	PRO A	101113.723	-3.852	16.122	1.00	0.00	H
ATOM	1477	2HB	PRO A	101113.296	-5.558	16.306	1.00	0.00	H
ATOM	1478	1HG	PRO A	101115.295	-3.931	17.831	1.00	0.00	H
ATOM	1479	2HG	PRO A	101114.111	-5.102	18.439	1.00	0.00	H
ATOM	1480	1HD	PRO A	101116.733	-5.710	18.074	1.00	0.00	H
ATOM	1481	2HD	PRO A	101115.434	-6.906	17.898	1.00	0.00	H
ATOM	1482	N	SER A	102115.637	-3.724	13.460	1.00	0.00	N

ATOM	1483	CA	SER A 102116.219	-2.560	12.802	1.00	0.00	C
ATOM	1484	C	SER A 102115.766	-2.472	11.348	1.00	0.00	C
ATOM	1485	O	SER A 102115.165	-1.480	10.935	1.00	0.00	O
ATOM	1486	CB	SER A 102117.747	-2.622	12.869	1.00	0.00	C
ATOM	1487	OG	SER A 102118.251	-3.671	12.060	1.00	0.00	O
ATOM	1488	H	SER A 102115.085	-4.342	12.937	1.00	0.00	H
ATOM	1489	HA	SER A 102115.881	-1.679	13.327	1.00	0.00	H
ATOM	1490	1HB	SER A 102118.159	-1.686	12.520	1.00	0.00	H
ATOM	1491	2HB	SER A 102118.054	-2.791	13.890	1.00	0.00	H
ATOM	1492	HG	SER A 102119.076	-3.395	11.655	1.00	0.00	H
ATOM	1493	N	SER A 103116.056	-3.515	10.579	1.00	0.00	N
ATOM	1494	CA	SER A 103115.677	-3.556	9.171	1.00	0.00	C
ATOM	1495	C	SER A 103114.558	-4.565	8.937	1.00	0.00	C
ATOM	1496	O	SER A 103113.425	-4.192	8.639	1.00	0.00	O
ATOM	1497	CB	SER A 103116.888	-3.908	8.306	1.00	0.00	C
ATOM	1498	OG	SER A 103116.525	-4.019	6.941	1.00	0.00	O
ATOM	1499	H	SER A 103116.537	-4.276	10.966	1.00	0.00	H
ATOM	1500	HA	SER A 103115.323	-2.573	8.895	1.00	0.00	H
ATOM	1501	1HB	SER A 103117.637	-3.137	8.404	1.00	0.00	H
ATOM	1502	2HB	SER A 103117.299	-4.852	8.634	1.00	0.00	H
ATOM	1503	HG	SER A 103116.882	-3.273	6.452	1.00	0.00	H
ATOM	1504	N	GLY A 104114.886	-5.846	9.074	1.00	0.00	N
ATOM	1505	CA	GLY A 104113.897	-6.889	8.874	1.00	0.00	C
ATOM	1506	C	GLY A 104113.297	-7.376	10.178	1.00	0.00	C
ATOM	1507	O	GLY A 104113.708	-8.455	10.654	1.00	0.00	O
ATOM	1508	OXT	GLY A 104112.415	-6.679	10.723	1.00	0.00	O
ATOM	1509	H	GLY A 104115.806	-6.084	9.313	1.00	0.00	H

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ATOM    1510 1HA  GLY A 104 113.106 -6.505   8.247   1.00   0.00 H
ATOM    1511 2HA  GLY A 104 114.367 -7.723   8.373   1.00   0.00 H
TER      1512 GLY A 104
ENDMDL
END
```

As described above, a constituent element (domain) having protein structure and function was predicted from the full length protein by a computer, and with a focus of the predicted region, extension or cutting was performed to the N- and C-terminals to produce various constructs. These proteins were expressed, and the actually obtained domain proteins were subjected to SDS-PAGE to confirm their expressions. Further, HSQC measurement was conducted using NMR, and all the individual domains were examined to confirm whether they have a structure or not. Therefore, it was confirmed that a position of a domain actually having a structure (folding) was precisely determined on the protein sequence. Additionally, using the domain protein with such low molecular weight, it was confirmed that three-dimensional structure analysis can be easily conducted.

[Example 7]

Based on the results of the above three-dimensional structural analysis, in silico screening was conducted to search for a ligand candidate and a pharmacophore (binding site) of a CAP-Gly-like protein.

(1) Database optimization

Low molecular compound catalog database was used, which was provided by SPECS Inc. as a database intended for low molecular compound database. When one entry contains a plurality of molecules, it was divided into one by one molecule.

Then, a library without overlaps was used as the population for screening. It contained 152323 molecules.

Based on "Lipinski's Rule of 5," target independent optimization was conducted regarding the low molecular compound database. Herein, the following conditions for refining were used.

1. Molecular weight was not less than 100 and not greater than 500
2. Calculated LogP value (o/w) was 5 or less (XLOGP-1 algorithm was used)
3. The number of hydrogen binding acceptor atoms (the number of N and O contained in a low molecular compound) was 10 or less.
4. The number of hydrogen binding donor atoms (the number NH and OH contained in a low molecular compound) was 5 or less.

Further, the following molecules were eliminated for properly conducting docking calculation.

1. The number of rotatable single bindings is 21 or more.
2. A molecule containing a radical.
3. A molecule containing elements other than H, C, N, O, F, S, P, Cl, Br, and

I.

After refining, the number of candidate molecules was 103773.

(2) Binding site prediction

(i) Three-dimensional structure analogy search

It was suggested that the CAP-Gly-like protein domain of the present invention had structural analogy with SH3 domain by three-dimensional structure analogy search. Therefore, distance matrices comparison [Holm L, Sander C, J. Mol. Biol. (1993), 233:123-138] was conducted, and three-dimensional structure analogy search with 1AON, 1BBZ, 1CKA, and 1GBQ (all expressed by PDB code) was conducted. For this three-dimensional structure analogy search, three dimensional coordinate table 1 was used.

(ii) Predicting binding site.

Although there was a little gap, it was indicated that there was structural analogy between a target and SH3 domain except fragments at the N-terminal and C-terminal side. On the other hand, a structure containing SH3 domain was bound to a peptide in the vicinity of a common hydrophobic pocket. Since this pocket was common with the CAP-Gly-like protein domain of the present invention, this site vicinity was selected as a screening target.

(3) Screening

(i) Primary screening

Using Dock 4.0, docking was conducted, regarding binding site, on the entire low molecular compound library, which had been optimized in advance. Based on the energy score of Dock, low molecular compounds were ranked.

(ii) Secondary screening

Regarding highly ranked 10619 molecules obtained as a result of the primary screening, detailed docking was conducted using AutoDock 3.0.5. Further refining was performed to compounds within 4 Å from the sphere used in docking, and molecules for which calculation was abnormally terminated were eliminated. As a result, docking structures of 9938 molecules were finally obtained. Further, among the selected compounds, further selection was conducted using ΔG (binding free energy change) = -6.89 and K_d = about 1 μM or less as standards. Then, 1,000 compounds having higher binding ability than the standards were regarded as ligand candidates.

(4) Search for important residue in pharmacophore definition

From three dimensional coordinate information of a target CAP-Gly-like domain protein, a spherical probe called sphere was produced on the target surface by Dock-attached program SPHGEN. Resides within 4 Å from HPD residue were

selected, and thereby important amino acids (Val26, Lys27, Glu47, Arg67, Lys83, and Ser86) in pharmacophore definition were obtained.

[Example 8]

Measurement of cell proliferation

(1) Cell culture

(i) HeLa cell

Using a Dulbecco's MEM medium (Dulbecco's modified essential medium; Sigma) containing 10% FBS (fetal bovine serum; available from ICN) for cell culture, 2 mM of L-glutamine (Sigma), 100 U/ml of penicillin, and 100 µg/ml of streptomycin (Sigma), HeLa cells were cultured in a humidified atmosphere with 5% CO₂ at 37°C.

(ii) 293 cell

Using a Dulbecco's MEM medium (Dulbecco's modified essential medium; Sigma) containing 10% FBS (fetal bovine serum; available from ICN) for cell culture, 2 mM of L-glutamine (Sigma), 0.1 mM of non-essential amino acids (Sigma), 1 mM of sodium pyruvate (Sigma), 100 U/ml of penicillin, and 100 µg/ml of streptomycin (Sigma), 293 cells were cultured in a humidified atmosphere with 5% CO₂ at 37°C.

(2) Gene transfer of the protein of the invention into cultured cells

cDNA (SEQ ID NO:2) was amplified by PCR, which was a gene fragment (corresponding to amino acids 464-554) derived from KIAA0849 containing an amino acid sequence represented by SEQ ID NO:1. The amplified cDNA (SEQ ID NO:2) was introduced into a BamHI/NotI multicloning site of a vector (Gateway system; Clontech) and subcloned. Thereafter, the introduction part was introduced by ligation reaction into pDEST26 (Clontech), an expression vector of eukaryote. Onto a dish with a diameter of 60 mm, 10⁵ of subcloned cells were plated, and then

incubated for about 24 hours. Using LipoFectamine 2000 (Invitrogen), the gene was transiently transfected into the cells. In addition, a cell into which only pDEST26 was transferred was prepared as control.

(3) Measurement of cell proliferation

To measure cell proliferation, the following control experiment was conducted. First, prepared were a 293 cell and a HeLa cell described above, into each of which a plasmid pDEST26 having cDNA with a nucleotide sequence represented by SEQ ID NO:2 introduced thereinto was introduced, and these cells having no such plasmid introduced thereinto. Then, the effect of CAP-Gly-like domain on cell proliferation was examined. After 24 hours from the gene transfer, adherent cells were removed by trypsin treatment, and cells were collected. The obtained cells were resuspended in phosphate buffered saline (PBS). Then, 0.4% of trypanblue (Sigma) was mixed at the same volume of the resuspended cells, and the mixture was incubated at room temperature for 10 minutes. The number of unstained living cells was measured by a standard hemocytometer (Sunlead Glass Co.) Measurements were performed independently three times, and their average and standard deviation (SE) were obtained. Results thereof are shown in Fig. 7. According to Fig. 7, it is found that, in either case of 293 cells and HeLa cells, cells having cDNA represented by SEQ ID NO:2 transfected thereinto decreased their living cell numbers compared with cells having no such transfection.

In view of the foregoing, it is found that the expression of the protein of the present invention in a cultured animal cell allows proliferation inhibition of the cell to be controlled.

[Example 9]

Binding experiment of CAP-Gly-like domain protein (464-554) and IKK-gamma (1-419)

Hereinafter, it has been experimentally confirmed that the domain protein of the present invention is bound to IKK-gamma (1-419).

(1) Using a DMEM medium containing 10% fetal calf serum (FCS), HeLa cells were cultured in a humidified atmosphere with 5% CO₂ at 37°C. Using LipoFectamine 2000 reagent (Invitrogen), cDNA (SEQ ID NO:22) of IKK-gamma (1-419) and cDNA (SEQ ID NO:2) of a CAP-Gly-like domain (464-554) were transferred and expressed in the cultured HeLa cell. The IKK-gamma (1-419) has myc tag added to its N-terminal, but it does not have particular effect in this experiment. After 24 hours from the gene transfer, washing with PBS was performed three times. Using a lysis buffer and 200 µl of an inhibitor, cells were collected and cell membranes were broken. The lysis buffer contained 30 mM of tris-HCl (pH 7.4), 150 mM of NaCl, 5 mM of EDTA, and 1% Triton X100. The inhibitor contained 10 µg/ml of leupeptin, 1 µg/ml of aprotinin, 1 µg/ml of pepstatin, 1 mM of Na₃VO₄, 40 mM of β-glycerophosphate, and 1 mM of PMSF. The collected extract was allowed to stand at 4°C for 10 minutes, and then centrifuged at 4°C for 30 minutes to precipitate unnecessary components of the cell extract, thereby obtaining a supernatant. The revolution speed of the centrifuge was 1500 rpm. After the centrifugation, 30 µg of protein G gel (Sigma) was added to the obtained supernatant, and the mixture was allowed to stand at 4°C for 30 minutes. Thereafter, 10 µg of anti-FLAG-M2 affinity gel was added to the supernatant, and the mixture was allowed to stand at 4°C for 2 hours. After standing, washing was performed three times with 0.5% of TBS and 500 µl of Triton X100. Then, washing was performed further twice with

TBS. After washing, cells were eluted with 20 μ l of sample buffer, and the obtained cells were heated at 98°C for 5 minutes.

A sample was subjected to SDS gel electrophoresis for separation. Here, PAG mini 10/20 (Daiichi Pure Chemicals Co., Ltd.) was used as a gel. Thereafter, proteins in the gel were electrically transcribed to a PVDF membrane (transcription conditions: at 80 mA for one hour). Using 1000-times diluted mouse anti-IKK-gamma antibodies (Pharmingen) as primary antibodies, the PVDF membrane was reacted with the antibodies for one hour. Further one hour reaction was conducted using 1000-times diluted mouse IgG horseradish peroxidase (HRP)-conjugated whole antibodies (Amersham) as secondary antibodies.

(2) Also as controls, prepared were a cultured HeLa cell having cDNA (SEQ ID NO:22) of IKK-gamma (1-419) transferred thereinto and expressed therein, and a cultured HeLa cell having no gene transferred thereinto.

(3) A detection image of western blotting was obtained using ECLplus (Amersham Pharmacia) and LAS-1000 (Fuji Film) as a detection reagent and a chemiluminescent detector, respectively. Thus obtained detection image of western blotting is shown in Fig. 8. Fig. 8 is an image detected by chemiluminescence of substrate decomposition of horseradish peroxidase after the purification by anti-FLAG M2 affinity gel and the transcription to PVDF. In Fig. 8, lane 1 is a lane of only HeLa cells (control), lane 2 is a lane of a product wherein IKK-gamma (1-419): SEQ ID NO:21 and a FLAG sequence were expressed in a HeLa cell, and lane 3 is a lane of a product wherein IKK-gamma (1-419) and addition of a FLAG sequence to a CAP-Gly-like domain protein (464-554) were expressed in a HeLa cell. In the lane 3, IKK-gamma was detected by chemiluminescence. This detection is considered to occur because the CAP-Gly-like domain protein (464-554) and IKK-gamma

(1-419) were bound with each other to form a complex; and in spite of anti-FLAG M2 affinity gel purification, IKK-gamma remained as a complex. As a result thereof, it was confirmed that the GAP-Gly-like domain protein (464-554) and IKK-gamma (1-419) were bound with each other.

Industrial Applicability

As described above, since the domain protein of the present invention has physiologically significant structure and protein molecular function, this domain protein can be used for screening a physiologically active substance interacting with this domain protein. In addition, three-dimensional structure analysis of the domain protein of the present invention allows a compound affecting the domain to be searched for and designed on a computer.

Moreover, in searching for a compound by wet testing, the domain protein of the present invention is a minimum protein cassette having only a specific molecular function, and thus screening of an active compound can be effectively carried out without being affected by undesired protection structure.

According to these results, it is possible to conduct screening of a compound having interaction with the domain protein and/or a natural protein containing the domain protein.

Hence, the provision of the domain protein according to the present invention enables effective genome drug discovery on the basis of protein structure-function analysis.

Further, the protein of the present invention can be used for screening a drug for Turban tumor syndrome or a drug can be optimized by use of three-dimensional structure information. In other words, a compound having interaction with a domain protein with CAP-Gly function can be effectively used for the prevention and treatment of various cancer-related diseases. In addition, it was found that the

protein of the present invention is bound with an IKK-gamma protein. The IKK-gamma protein interacts with NF-kB, a cancer-related protein and inhibits transcription enhancing function of NF-kB. Therefore, the protein of the present invention can be effectively used for the prevention and treatment of cancer-related diseases that particularly involve NF-kB.